


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒**APPLICATION FOR PERMIT TO DRILL**

2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				1. WELL NAME and NUMBER Greater Monument Butte I-2-9-16		
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO				3. FIELD OR WILDCAT MONUMENT BUTTE		
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY				5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)		
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052				7. OPERATOR PHONE 435 646-4825		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-21839		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		9. OPERATOR E-MAIL mcrozier@newfield.com		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	750 FNL 755 FEL	NENE	2	9.0 S	16.0 E	S
Top of Uppermost Producing Zone	1073 FNL 1142 FEL	NENE	2	9.0 S	16.0 E	S
At Total Depth	1207 FNL 1320 FEL	NENE	2	9.0 S	16.0 E	S
21. COUNTY DUCHESNE		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1207		23. NUMBER OF ACRES IN DRILLING UNIT 20		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1448		26. PROPOSED DEPTH MD: 6253 TVD: 6253		
27. ELEVATION - GROUND LEVEL 5444		28. BOND NUMBER B001834		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-7478		

ATTACHMENTS**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP
NAME Mandie Crozier	TITLE Regulatory Tech
SIGNATURE	DATE 02/02/2010
API NUMBER ASSIGNED 43013502440000	PHONE 435 646-4825
APPROVAL	EMAIL mcrozier@newfield.com
 Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	6253		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	6253	15.5			

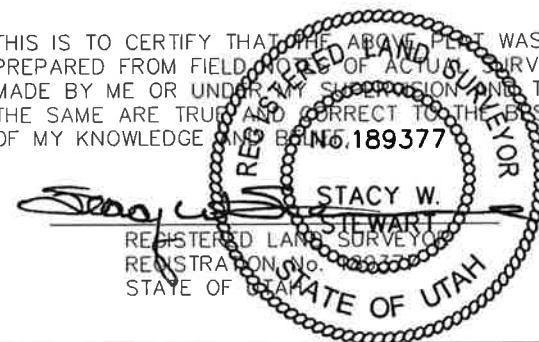
Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	450		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	450	24.0			

T9S, R16E, S.L.B.&M.**NEWFIELD PRODUCTION COMPANY**

WELL LOCATION, 1-2-9-16, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 (LOT 1) OF SECTION 2, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

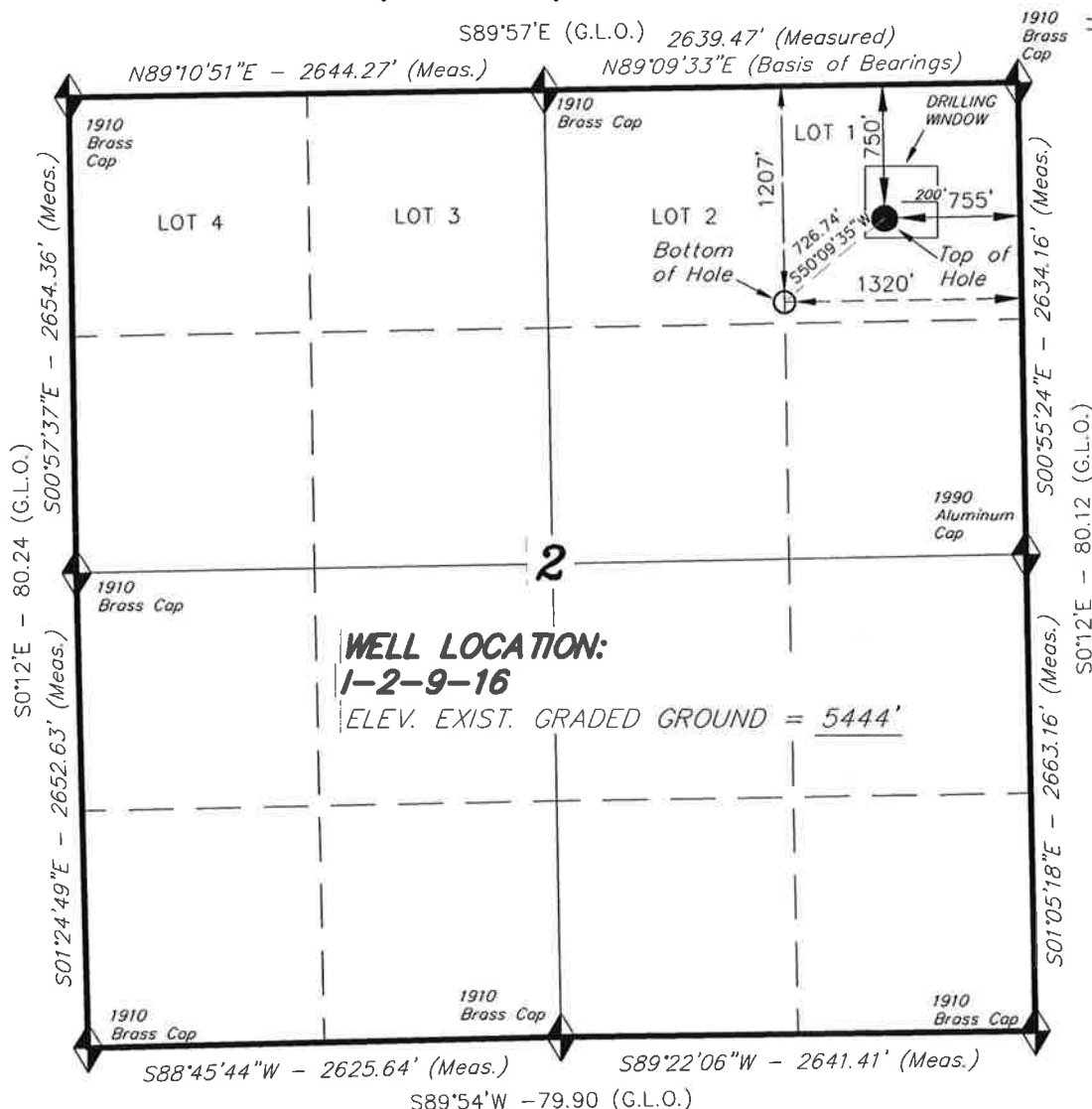


THIS IS TO CERTIFY THAT THE ABOVE PLOT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 09-25-09	SURVEYED BY: T.P.
DATE DRAWN: 10-14-09	DRAWN BY: M.W.
REVISED: 01-15-2010	SCALE: 1" = 1000'



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction.
LAT. 40°04'09.56" LONG. 110°00'43.28"
(Tristate Aluminum Cap) Elev. 5281.57'

1-2-9-16
(Surface Location) **NAD 83**
LATITUDE = 40° 03' 54.30"
LONGITUDE = 110° 04' 47.70"



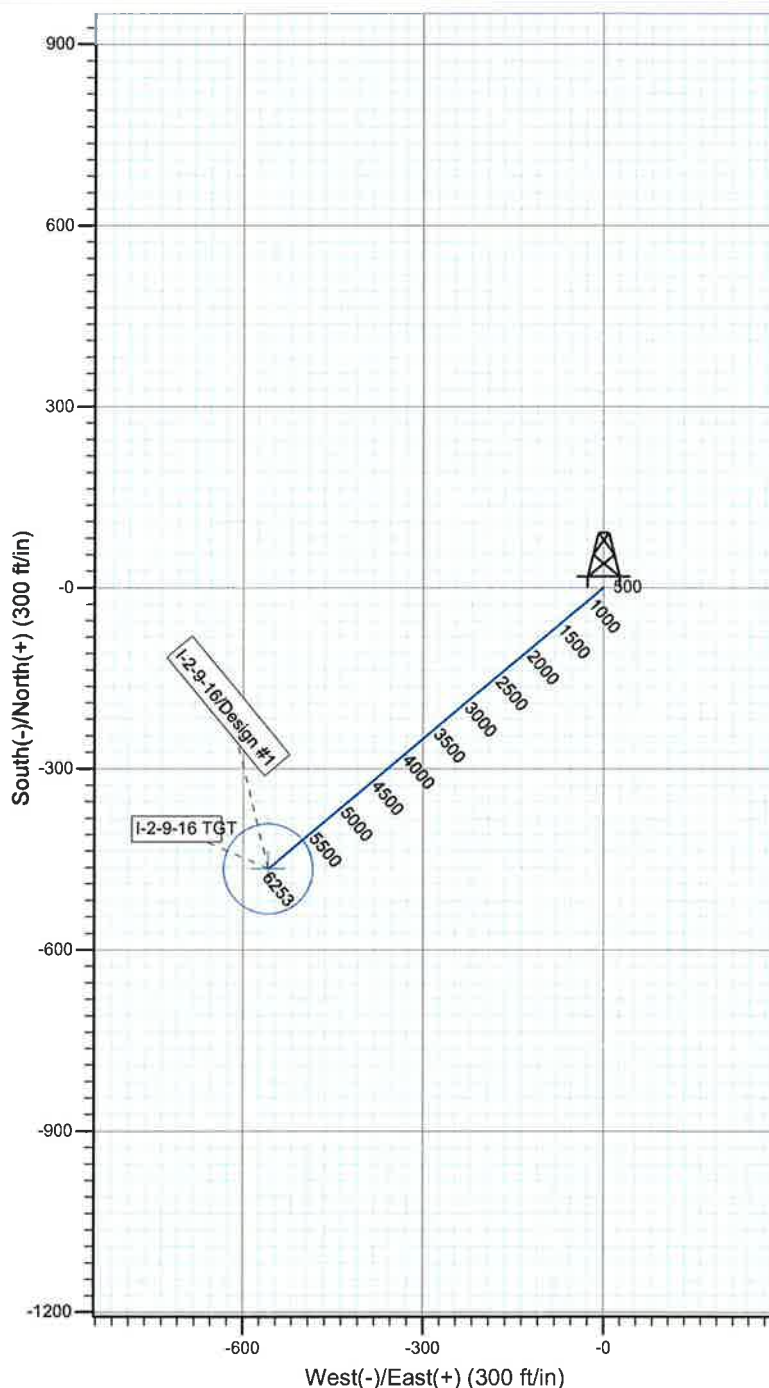
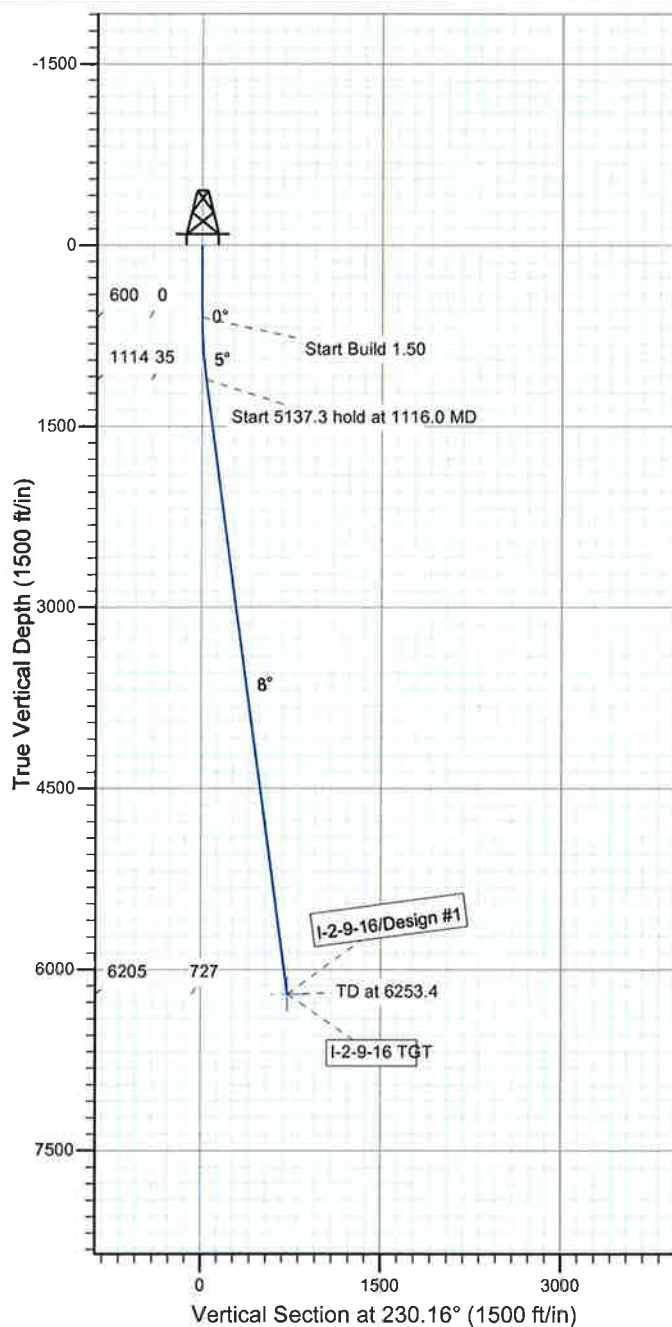
Project: USGS Myton SW (UT)
 Site: SECTION 2 9S 16E
 Well: I-2-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.51°

Magnetic Field
 Strength: 52469.5snT
 Dip Angle: 65.86°
 Date: 2009/11/04
 Model: IGRF200510

KOP @ 600'
 DOGLENG RATE 1.5 DEG/100'
 TARGET RADIUS IS 75'



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
I-2-9-16 TGT	6205.0	-465.6	-558.0	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1116.0	7.74	230.16	1114.5	-22.3	-26.7	1.50	230.16	34.8	
4	6253.4	7.74	230.16	6205.0	-465.6	-558.0	0.00	0.00	726.7	I-2-9-16 TGT



NEWFIELD



NEWFIELD EXPLORATION

USGS Myton SW (UT)

SECTION 2 9S 16E

I-2-9-16

Wellbore #1

Plan: Design #1

Standard Planning Report

04 November, 2009

HATHAWAY **HB** **BURNHAM**
TIB
DIRECTIONAL & MWD SERVICES



HATHAWAY BURNHAM

Planning Report



Database: EDM 2003.21 Single User Db
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
Well: I-2-9-16
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well I-2-9-16
TVD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
MD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone	Using geodetic scale factor	

Site	SECTION 2 9S 16E, SEC 2 9S 16E		
Site Position:		Northing:	7,193,600.00 ft
From:	Map	Easting:	2,036,100.00 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 3' 34.952 N
		Longitude:	110° 5' 10.480 W
		Grid Convergence:	0.91 °

Well	I-2-9-16, SHL LAT: 40 03 54.30, LONG: -110 04 47.70		
Well Position	+N/-S	1,957.8 ft	Latitude: 40° 3' 54.300 N
	+E/-W	1,771.3 ft	Longitude: 110° 4' 47.700 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	5,456.0 ft
		Ground Level:	5,444.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/11/04	11.51	65.86	52,470

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	6,205.0	0.0	0.0	230.16

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,116.0	7.74	230.16	1,114.5	-22.3	-26.7	1.50	1.50	0.00	230.16	
6,253.4	7.74	230.16	6,205.0	-465.6	-558.0	0.00	0.00	0.00	0.00	I-2-9-16 TGT

NEWFIELD



HATHAWAY BURNHAM

Planning Report



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MD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	230.16	700.0	-0.8	-1.0	1.3	1.50	1.50	0.00
800.0	3.00	230.16	799.9	-3.4	-4.0	5.2	1.50	1.50	0.00
900.0	4.50	230.16	899.7	-7.5	-9.0	11.8	1.50	1.50	0.00
1,000.0	6.00	230.16	999.3	-13.4	-16.1	20.9	1.50	1.50	0.00
1,100.0	7.50	230.16	1,098.6	-20.9	-25.1	32.7	1.50	1.50	0.00
1,116.0	7.74	230.16	1,114.5	-22.3	-26.7	34.8	1.50	1.50	0.00
1,200.0	7.74	230.16	1,197.7	-29.5	-35.4	46.1	0.00	0.00	0.00
1,300.0	7.74	230.16	1,296.8	-38.2	-45.7	59.6	0.00	0.00	0.00
1,400.0	7.74	230.16	1,395.8	-46.8	-56.1	73.1	0.00	0.00	0.00
1,500.0	7.74	230.16	1,494.9	-55.4	-66.4	86.5	0.00	0.00	0.00
1,600.0	7.74	230.16	1,594.0	-64.1	-76.8	100.0	0.00	0.00	0.00
1,700.0	7.74	230.16	1,693.1	-72.7	-87.1	113.5	0.00	0.00	0.00
1,800.0	7.74	230.16	1,792.2	-81.3	-97.5	126.9	0.00	0.00	0.00
1,900.0	7.74	230.16	1,891.3	-89.9	-107.8	140.4	0.00	0.00	0.00
2,000.0	7.74	230.16	1,990.4	-98.6	-118.1	153.9	0.00	0.00	0.00
2,100.0	7.74	230.16	2,089.5	-107.2	-128.5	167.3	0.00	0.00	0.00
2,200.0	7.74	230.16	2,188.6	-115.8	-138.8	180.8	0.00	0.00	0.00
2,300.0	7.74	230.16	2,287.6	-124.5	-149.2	194.3	0.00	0.00	0.00
2,400.0	7.74	230.16	2,386.7	-133.1	-159.5	207.7	0.00	0.00	0.00
2,500.0	7.74	230.16	2,485.8	-141.7	-169.9	221.2	0.00	0.00	0.00
2,600.0	7.74	230.16	2,584.9	-150.3	-180.2	234.7	0.00	0.00	0.00
2,700.0	7.74	230.16	2,684.0	-159.0	-190.5	248.1	0.00	0.00	0.00
2,800.0	7.74	230.16	2,783.1	-167.6	-200.9	261.6	0.00	0.00	0.00
2,900.0	7.74	230.16	2,882.2	-176.2	-211.2	275.1	0.00	0.00	0.00
3,000.0	7.74	230.16	2,981.3	-184.9	-221.6	288.6	0.00	0.00	0.00
3,100.0	7.74	230.16	3,080.4	-193.5	-231.9	302.0	0.00	0.00	0.00
3,200.0	7.74	230.16	3,179.4	-202.1	-242.2	315.5	0.00	0.00	0.00
3,300.0	7.74	230.16	3,278.5	-210.7	-252.6	329.0	0.00	0.00	0.00
3,400.0	7.74	230.16	3,377.6	-219.4	-262.9	342.4	0.00	0.00	0.00
3,500.0	7.74	230.16	3,476.7	-228.0	-273.3	355.9	0.00	0.00	0.00
3,600.0	7.74	230.16	3,575.8	-236.6	-283.6	369.4	0.00	0.00	0.00
3,700.0	7.74	230.16	3,674.9	-245.3	-294.0	382.8	0.00	0.00	0.00
3,800.0	7.74	230.16	3,774.0	-253.9	-304.3	396.3	0.00	0.00	0.00
3,900.0	7.74	230.16	3,873.1	-262.5	-314.6	409.8	0.00	0.00	0.00
4,000.0	7.74	230.16	3,972.2	-271.1	-325.0	423.2	0.00	0.00	0.00
4,100.0	7.74	230.16	4,071.2	-279.8	-335.3	436.7	0.00	0.00	0.00
4,200.0	7.74	230.16	4,170.3	-288.4	-345.7	450.2	0.00	0.00	0.00
4,300.0	7.74	230.16	4,269.4	-297.0	-356.0	463.6	0.00	0.00	0.00
4,400.0	7.74	230.16	4,368.5	-305.7	-366.3	477.1	0.00	0.00	0.00
4,500.0	7.74	230.16	4,467.6	-314.3	-376.7	490.6	0.00	0.00	0.00
4,600.0	7.74	230.16	4,566.7	-322.9	-387.0	504.1	0.00	0.00	0.00
4,700.0	7.74	230.16	4,665.8	-331.5	-397.4	517.5	0.00	0.00	0.00
4,800.0	7.74	230.16	4,764.9	-340.2	-407.7	531.0	0.00	0.00	0.00
4,900.0	7.74	230.16	4,864.0	-348.8	-418.1	544.5	0.00	0.00	0.00
5,000.0	7.74	230.16	4,963.0	-357.4	-428.4	557.9	0.00	0.00	0.00
5,100.0	7.74	230.16	5,062.1	-366.1	-438.7	571.4	0.00	0.00	0.00
5,200.0	7.74	230.16	5,161.2	-374.7	-449.1	584.9	0.00	0.00	0.00



HATHAWAY BURNHAM

Planning Report



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MD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	7.74	230.16	5,260.3	-383.3	-459.4	598.3	0.00	0.00	0.00
5,400.0	7.74	230.16	5,359.4	-391.9	-469.8	611.8	0.00	0.00	0.00
5,500.0	7.74	230.16	5,458.5	-400.6	-480.1	625.3	0.00	0.00	0.00
5,600.0	7.74	230.16	5,557.6	-409.2	-490.4	638.7	0.00	0.00	0.00
5,700.0	7.74	230.16	5,656.7	-417.8	-500.8	652.2	0.00	0.00	0.00
5,800.0	7.74	230.16	5,755.8	-426.5	-511.1	665.7	0.00	0.00	0.00
5,900.0	7.74	230.16	5,854.8	-435.1	-521.5	679.1	0.00	0.00	0.00
6,000.0	7.74	230.16	5,953.9	-443.7	-531.8	692.6	0.00	0.00	0.00
6,100.0	7.74	230.16	6,053.0	-452.3	-542.2	706.1	0.00	0.00	0.00
6,200.0	7.74	230.16	6,152.1	-461.0	-552.5	719.6	0.00	0.00	0.00
6,253.4	7.74	230.16	6,205.0	-465.6	-558.0	726.7	0.00	0.00	0.00

NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE I-2-9-16
AT SURFACE: NE/NE SECTION 2, T9S, R16E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1565'
Green River	1565'
Wasatch	6253'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1565' – 6253' – Oil

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 450'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO ₃) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

a. Casing Design: Greater Monument Butte I-2-9-16

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	450'	24.0	J-55	STC	2,950 11.69	1,370 9.57	244,000 22.59
Prod casing 5-1/2"	0'	6,253'	15.5	J-55	LTC	4,810 2.42	4,040 2.03	217,000 2.24

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient -- gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure -- gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
Pore pressure at surface casing shoe = 8.33 ppg
Pore pressure at prod casing shoe = 8.33 ppg
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cementing Design: Greater Monument Butte I-2-9-16

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	450'	Class G w/ 2% CaCl	206 241	30%	15.8	1.17
Prod casing Lead	4,253'	Prem Lite II w/ 10% gel + 3% KCl	294 958	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

- *Actual volume pumped will be 15% over the caliper log
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
 - Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if

the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ±450 feet will be drilled with an air/mist system. From about 450 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 450' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the second quarter of 2010, and take approximately seven (7) days from spud to rig release.

2-M SYSTEM

Blowout Prevention Equipment Systems

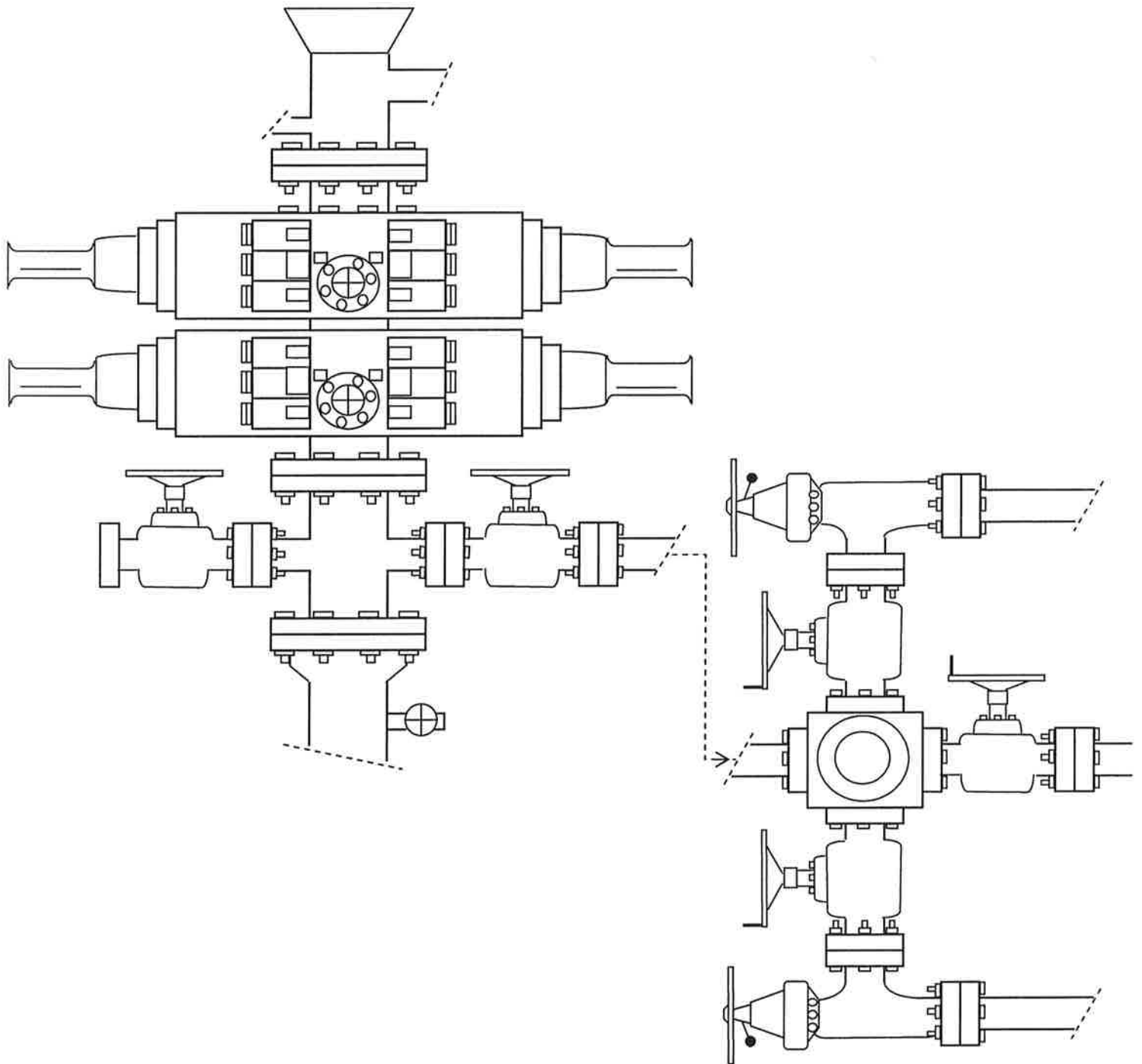
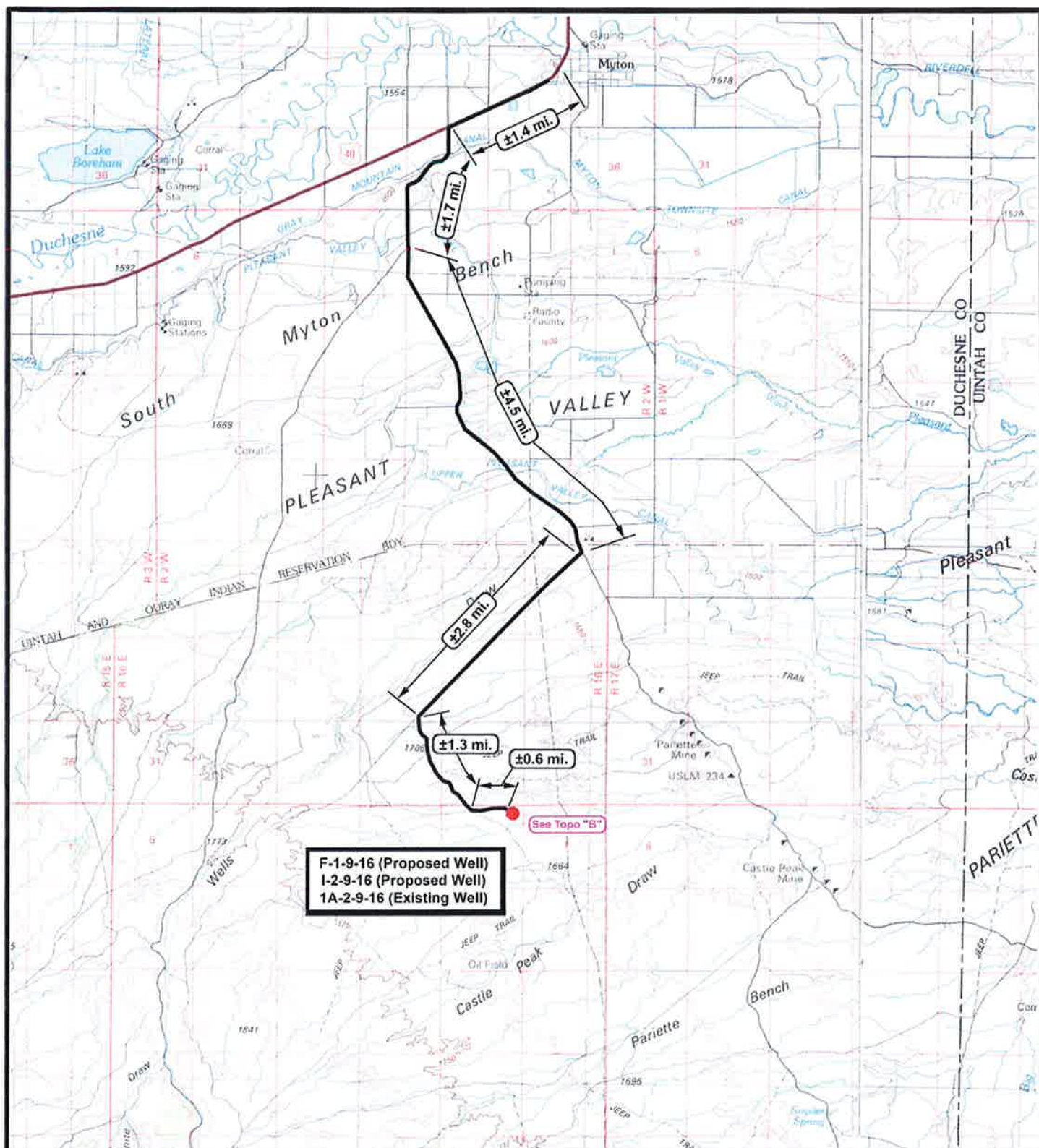



EXHIBIT C



F-1-9-16 (Proposed Well)
I-2-9-16 (Proposed Well)
1A-2-9-16 (Existing Well)

See Topo "B"



NEWFIELD
Exploration Company

F-1-9-16 (Proposed Well)
I-2-9-16 (Proposed Well)
1A-2-9-16 (Existing Well)


Pad Location NENE SEC. 2, T9S, R16E, S.L.B.&M.



Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

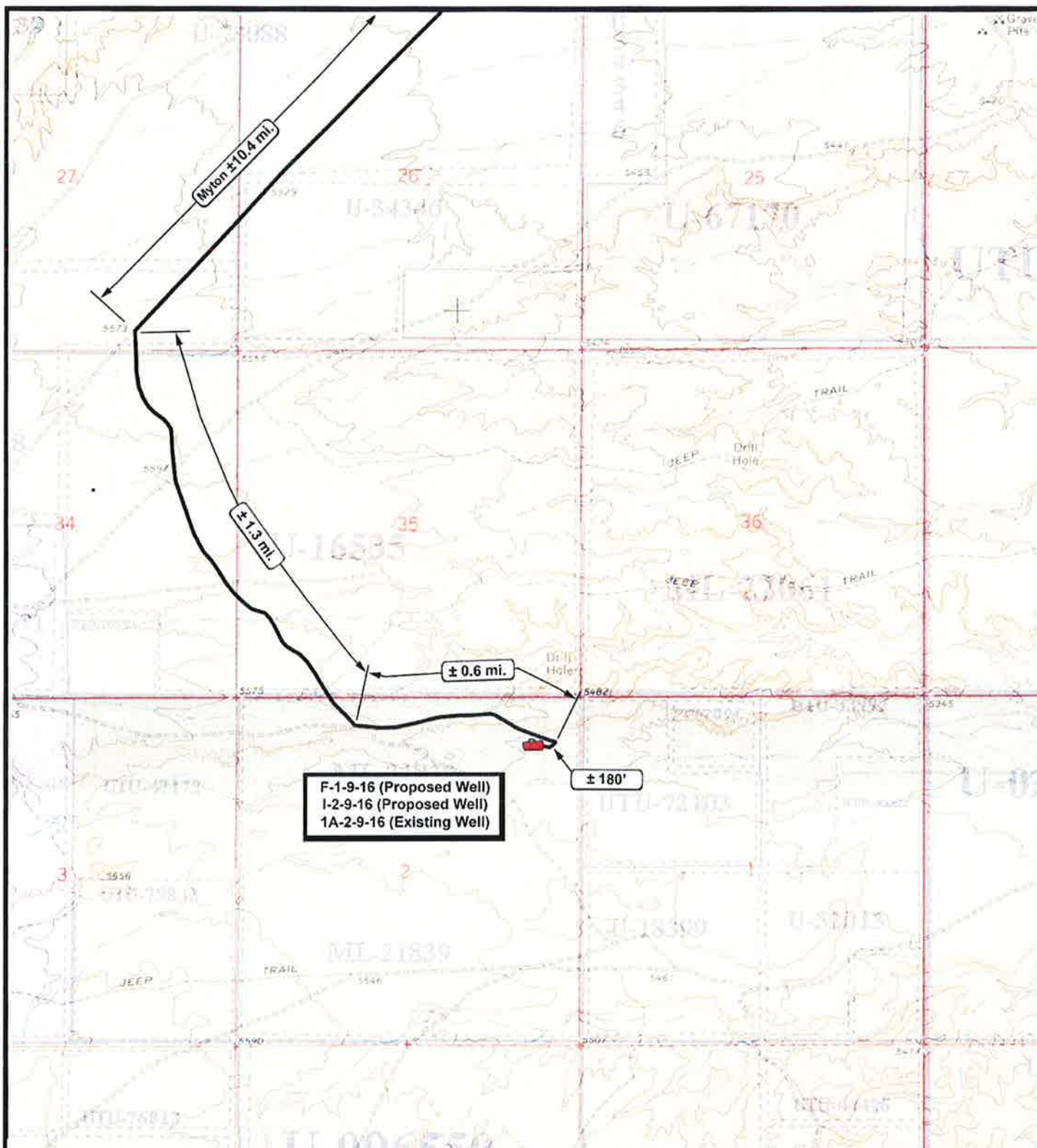
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DATE: 01-15-2010




Legend

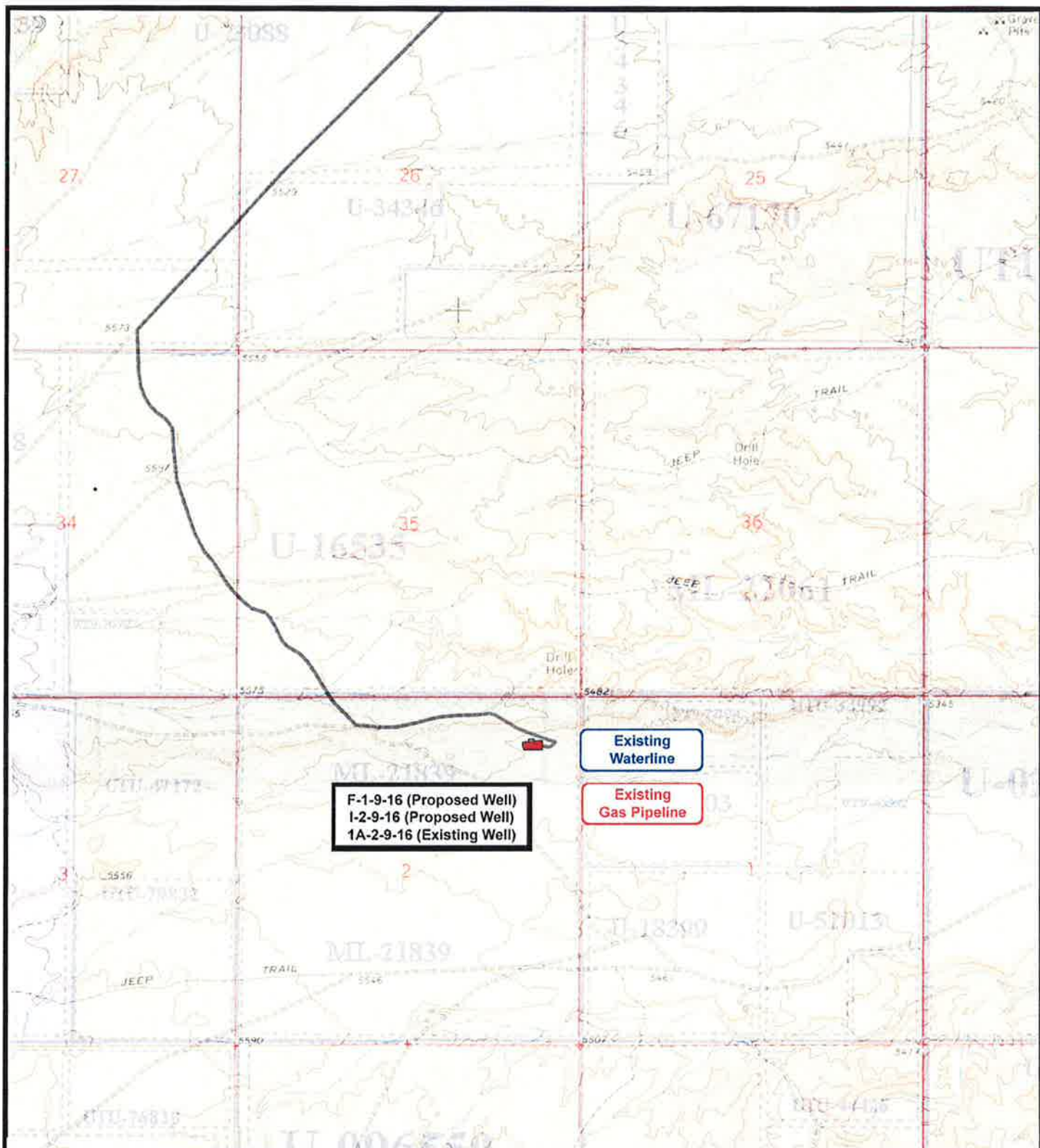
 Existing Road




TOPOGRAPHIC MAP

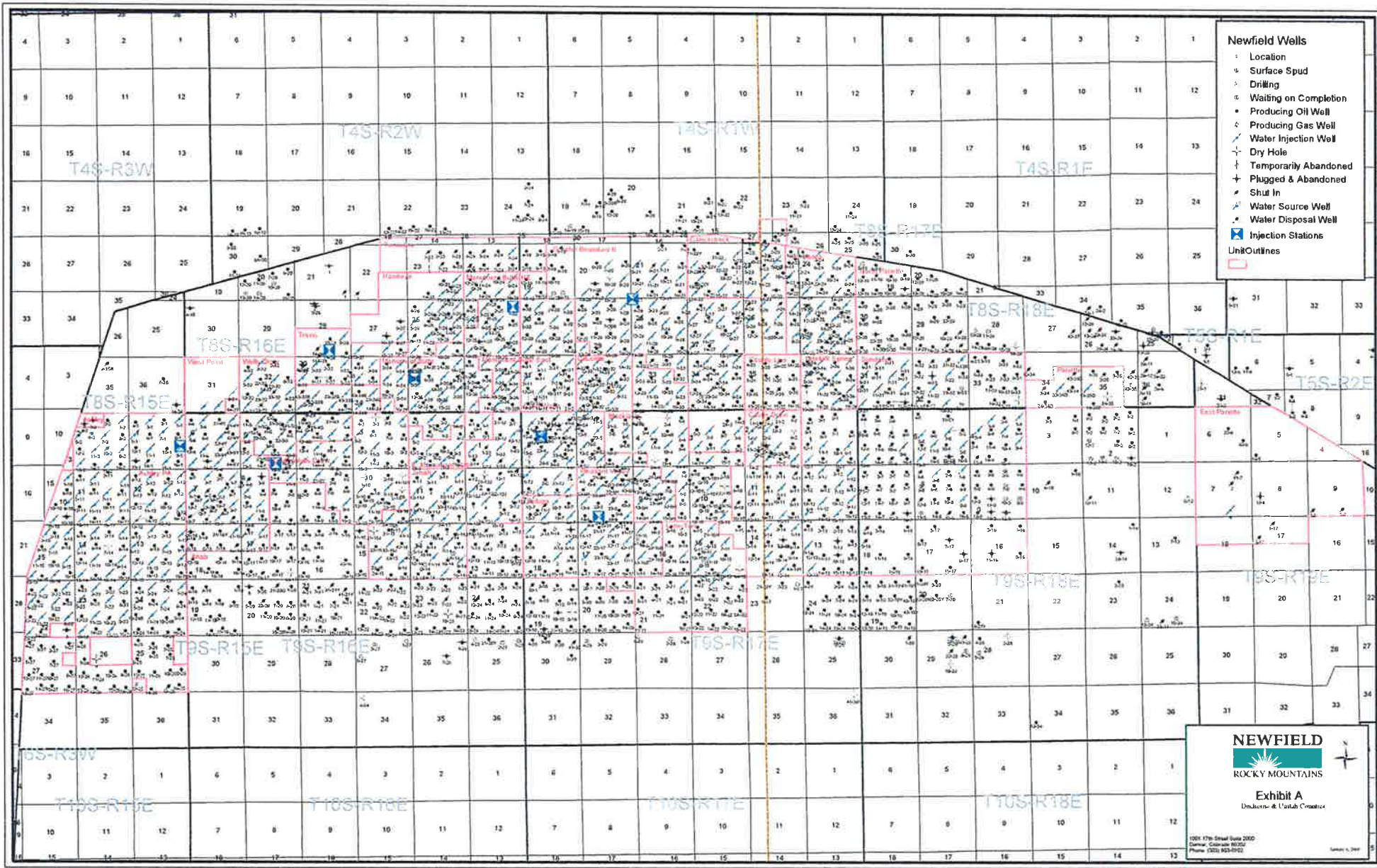
"A"

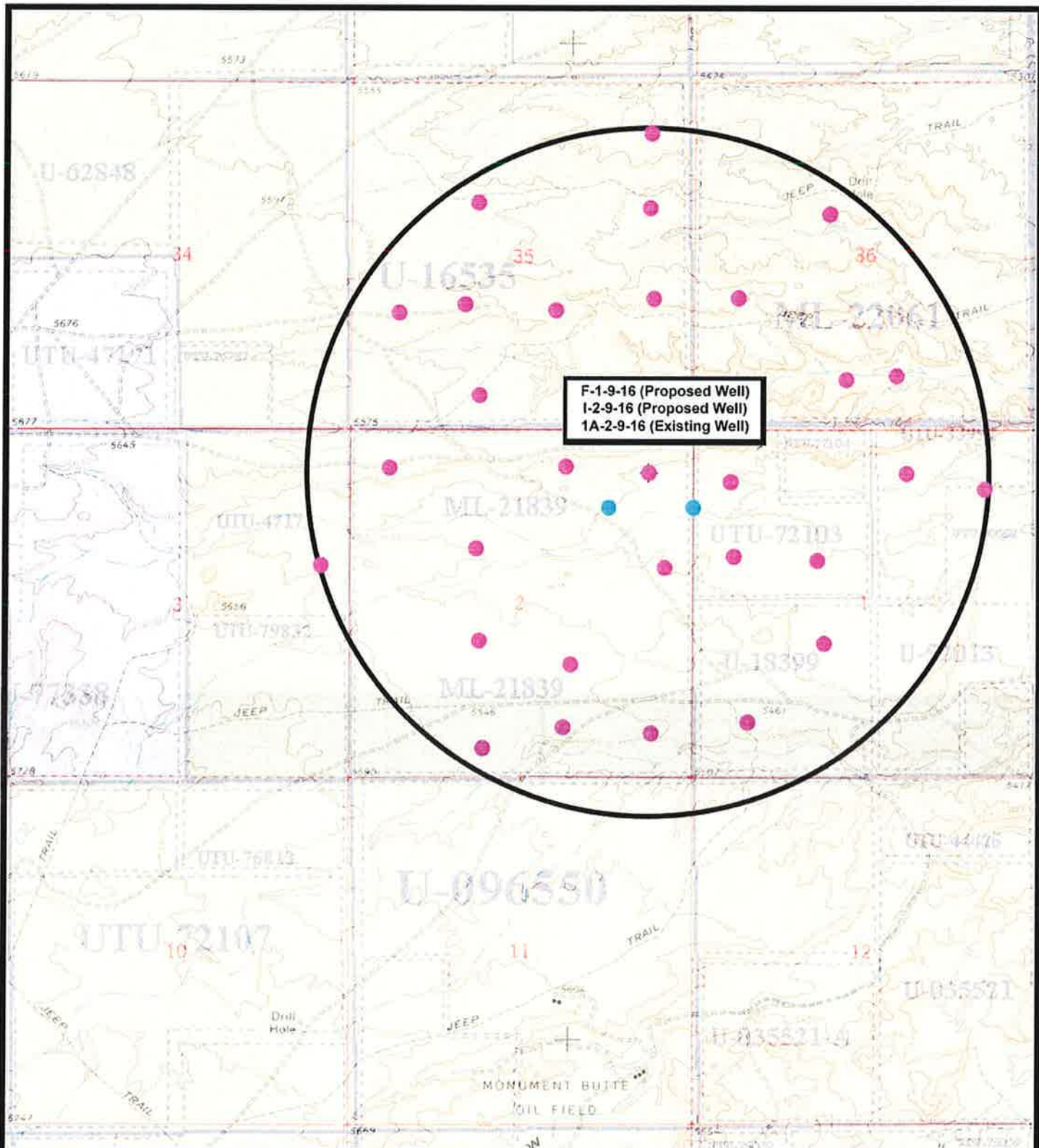



 <p>NEWFIELD Exploration Company</p>		 <p>Tri-State Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p>Legend</p> <p>Existing Road</p>
<p>F-1-9-16 (Proposed Well) I-2-9-16 (Proposed Well) 1A-2-9-16 (Existing Well) Pad Location NENE SEC. 2, T9S, R16E, S.L.B.&M.</p>		<p>SCALE: 1" = 2,000' DRAWN BY: mw DATE: 01-15-2010</p>	<p>TOPOGRAPHIC MAP</p> <p>"B"</p>



 <p>NEWFIELD Exploration Company</p>		 <p>Tri-State Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p>Legend</p> <p>— Roads</p>
<p>F-1-9-16 (Proposed Well) I-2-9-16 (Proposed Well) 1A-2-9-16 (Existing Well) Pad Location NENE SEC. 2, T9S, R16E, S.L.B.&M.</p>		<p>SCALE: 1" = 2,000' DRAWN BY: mw DATE: 01-15-2010</p>	<p>TOPOGRAPHIC MAP "C"</p>







NEWFIELD
Exploration Company

F-1-9-16 (Proposed Well)
I-2-9-16 (Proposed Well)
1A-2-9-16 (Existing Well)
 Pad Location NENE SEC. 2, T9S, R16E, S.L.B.&M.





Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 01-15-2010

Legend

- Pad Location
- Bottom Hole Location
- One-Mile Radius

Exhibit "B"

NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE I-2-9-16
AT SURFACE: NE/NE SECTION 2, T9S, R16E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Greater Monument Butte I-2-9-16 located in the NE ¼ NE ¼ Section 2, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed in a southwesterly direction out of Myton, Utah along Highway 40 approximately 1.4 ± miles to the junction of this highway and Utah State Highway 53; proceed southeasterly approximately 6.2 miles ± to its junction with an existing road to the southwest; proceed southwesterly approximately 2.8 miles ± to its junction with an existing road to the southeast; proceed southeasterly approximately 1.3 miles ± to its junction with an existing road to the east; proceed easterly approximately 0.6 miles ± to its junction with the beginning of the access road to the existing 1A-2-9-16 well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled off of the existing 1A-2-9-16 well pad. See attached **Topographic Map "B"**.

There will be no new gates or cattle guards required.

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the existing 1A-2-9-16 well pad. There will be a pumping unit and a short flow line added to the existing tank battery for the proposed I-2-9-16.

It is anticipated that this well will be a producing oil well.

There are no existing facilities that will be used by this well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District
Water Right: 43-7478

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

Newfield Collector Well
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Greater Monument Butte I-2-9-16 will be drilled off of the existing 1A-2-9-16 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte I-2-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Greater Monument Butte I-2-9-16 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Ten Point Well Program &
Thirteen Point Well Program
Page 9 of 9

Representative


Name: Tim Eaton
Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #I-2-9-16, NE/NE Section 2, T9S, R16E, LEASE #ML-21839, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

1/21/09
Date


Mandie Crozier
Regulatory Specialist
Newfield Production Company

NEWFIELD PRODUCTION COMPANY

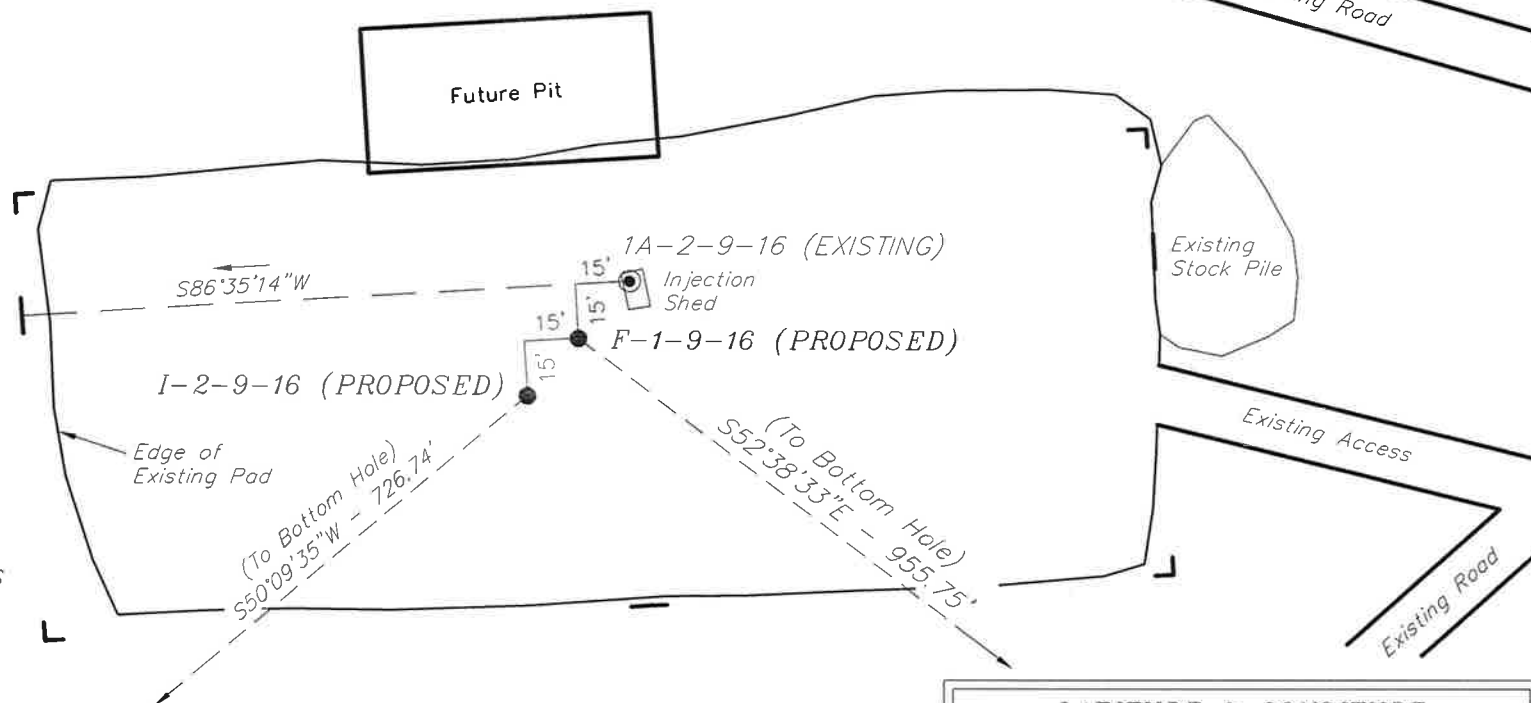
WELL PAD INTERFERENCE PLAT

F-1-9-16 (Proposed Well)

I-2-9-16 (Proposed Well)

1A-2-9-16 (Existing Well)

Pad Location: NENE (LOT 1) Section 2, T9S, R16E, S.L.B.&M.



TOP HOLE FOOTAGES

F-1-9-16 (PROPOSED)

734' FNL & 740' FEL

I-2-9-16 (PROPOSED)

750' FNL & 755' FEL

BOTTOM HOLE FOOTAGES

F-1-9-16 (PROPOSED)

1325' FNL & 10' FWL

I-2-9-16 (PROPOSED)

1207' FNL & 1320' FEL

Note:

Bearings are based on
GPS Observations.

RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
F-1-9-16	-580'	760'
I-2-9-16	-483'	-602'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
F-1-9-16	40° 03' 54.45"	110° 04' 47.52"
I-2-9-16	40° 03' 54.30"	110° 04' 47.70"
1A-2-9-16	40° 03' 54.61"	110° 04' 47.33"

SURVEYED BY: T.P. DATE SURVEYED: 09-02-09
DRAWN BY: M.W. DATE DRAWN: 09-15-09
SCALE: 1" = 50' REVISED: M.W. 01-15-10

Tri State
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

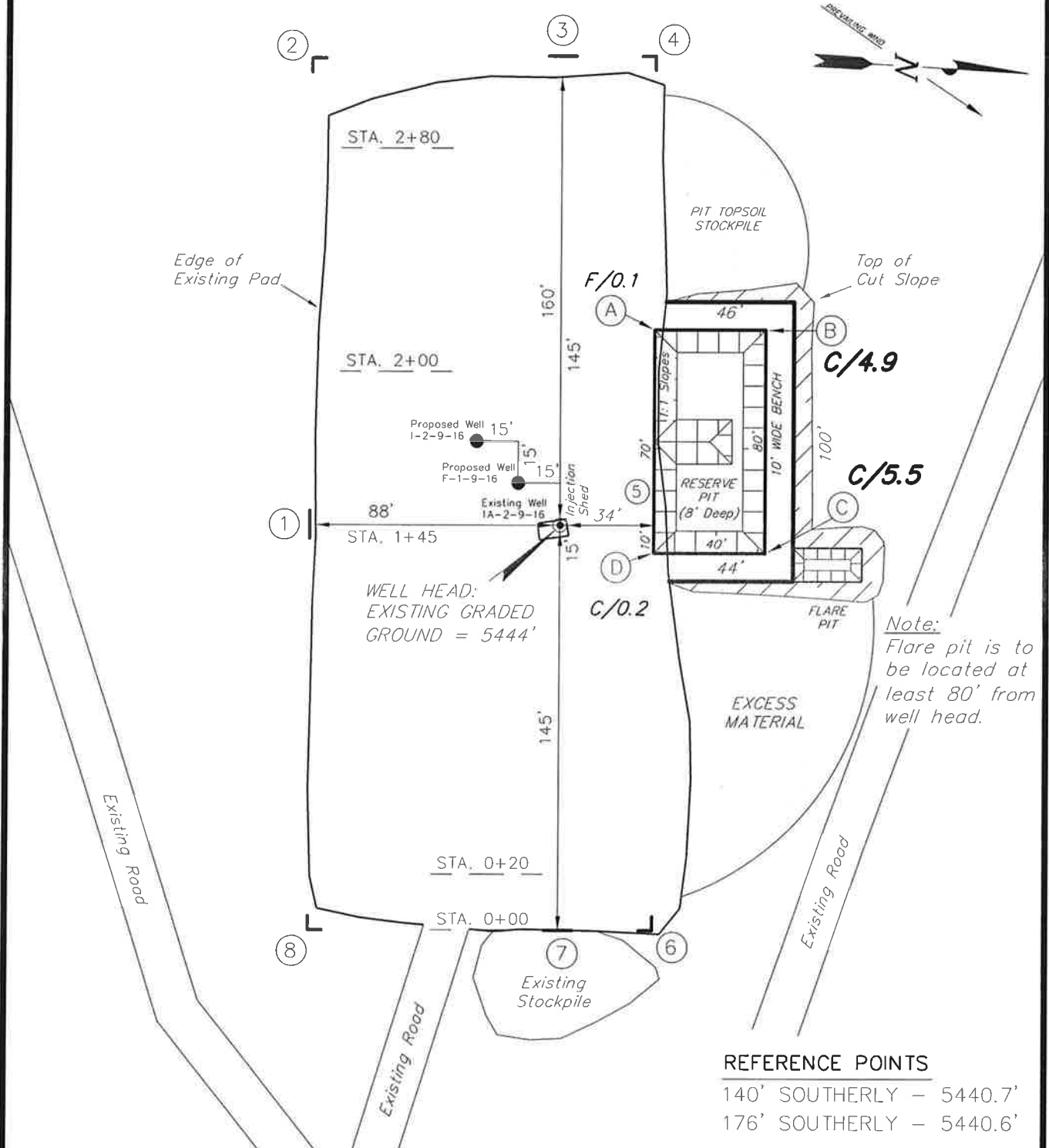
NEWFIELD PRODUCTION COMPANY

F-1-9-16 (Proposed Well)

I-2-9-16 (Proposed Well)

1A-2-9-16 (Existing Well)

Pad Location: NENE (LOT 1) Section 2, T9S, R16E, S.L.B.&M.



REFERENCE POINTS

140' SOUTHERLY - 5440.7'

176' SOUTHERLY - 5440.6'

SURVEYED BY: T.P.

DATE SURVEYED: 09-25-09

DRAWN BY: M.W.

DATE DRAWN: 10-14-09

SCALE: 1" = 50'

REVISED: M.W. 01-15-10

Tri State
Land Surveying, Inc.

(435) 781-2501

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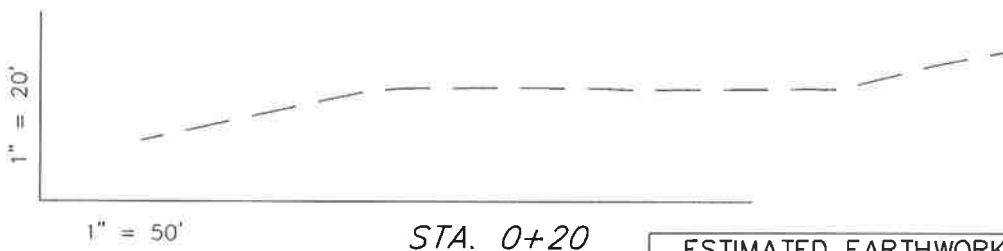
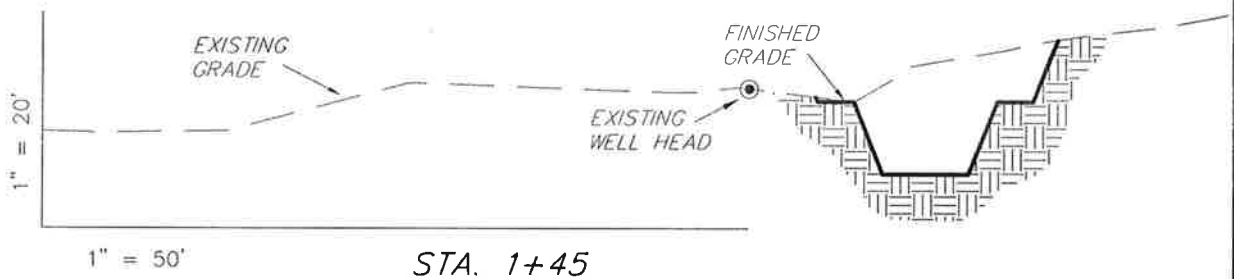
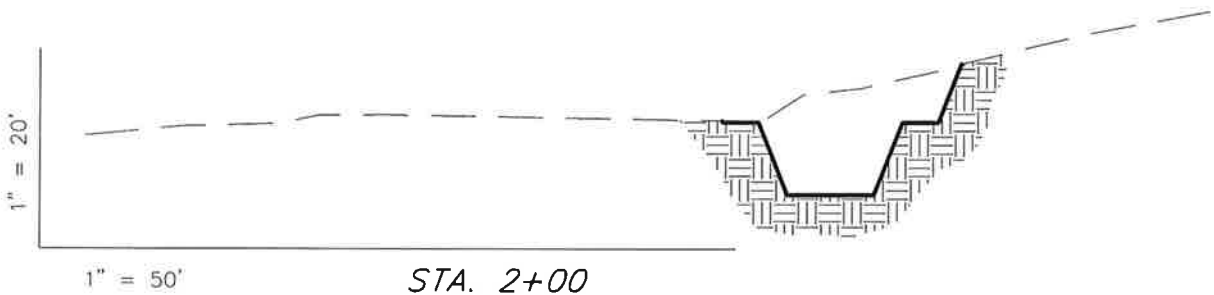
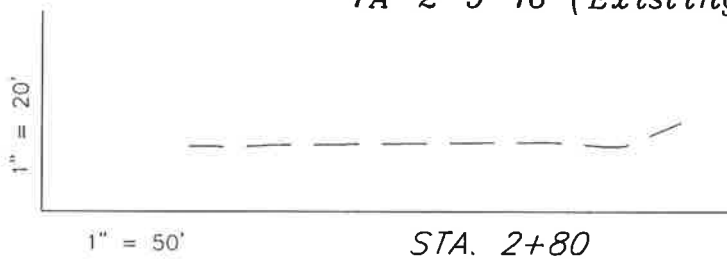
NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

F-1-9-16 (Proposed Well)

I-2-9-16 (Proposed Well)

1A-2-9-16 (Existing Well)



NOTE:
UNLESS OTHERWISE NOTED
CUT SLOPES ARE AT 1:1
FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	790	0	Topsoil is not included in Pad Cut	790
PIT	640	0		640
TOTALS	1,430	0	150	1,430

SURVEYED BY: T.P. DATE SURVEYED: 09-25-09

DRAWN BY: M.W. DATE DRAWN: 10-14-09

SCALE: 1" = 50' REVISED: M.W. 01-15-10

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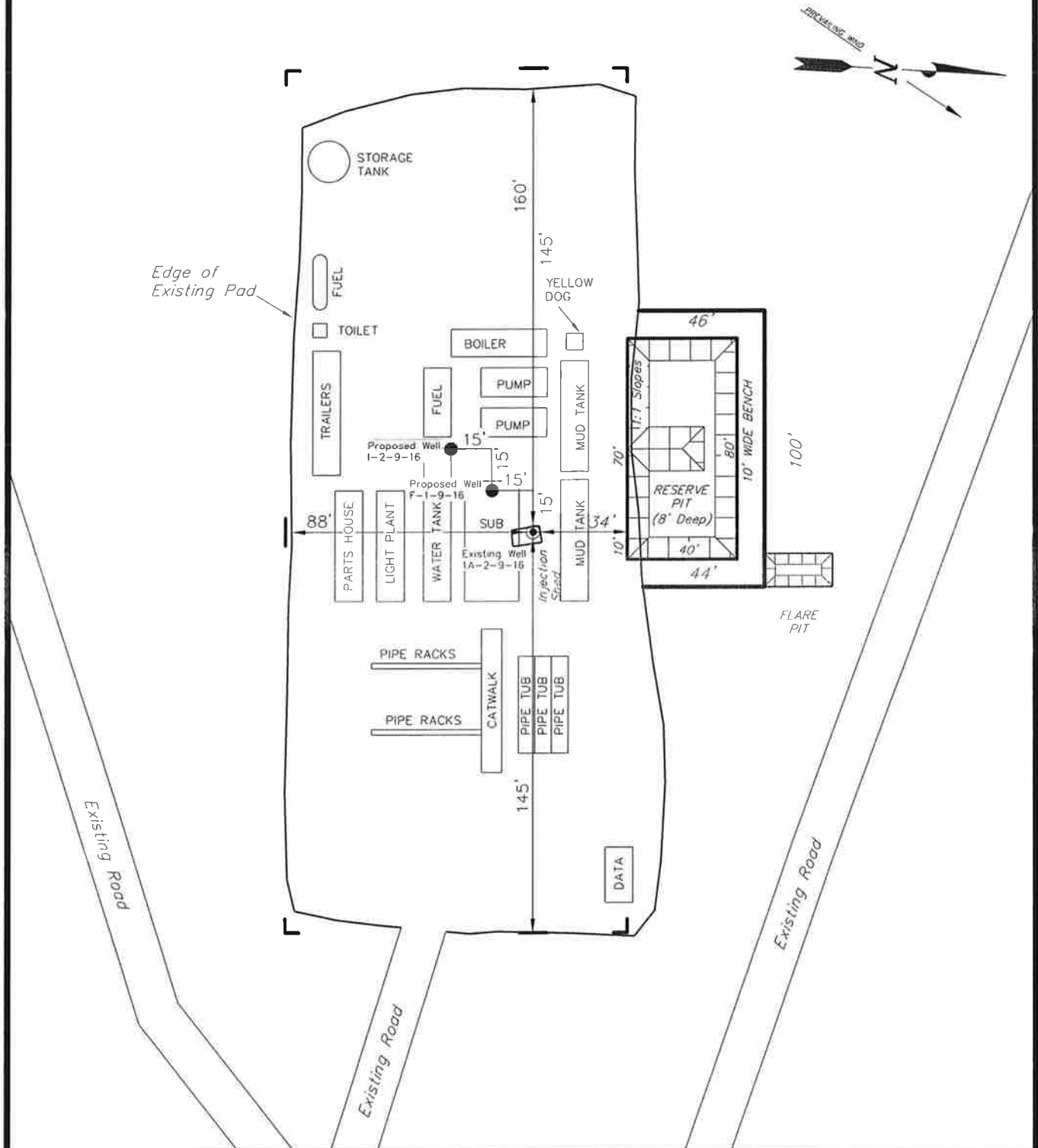
NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT

F-1-9-16 (Proposed Well)

I-2-9-16 (Proposed Well)

1A-2-9-16 (Existing Well)



SURVEYED BY: T.P.	DATE SURVEYED: 09-25-09
DRAWN BY: M.W.	DATE DRAWN: 10-14-09
SCALE: 1" = 50'	REVISED: M.W. 01-15-10

Tri State
Land Surveying, Inc.
(435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

Newfield Production Company Proposed Site Facility Diagram

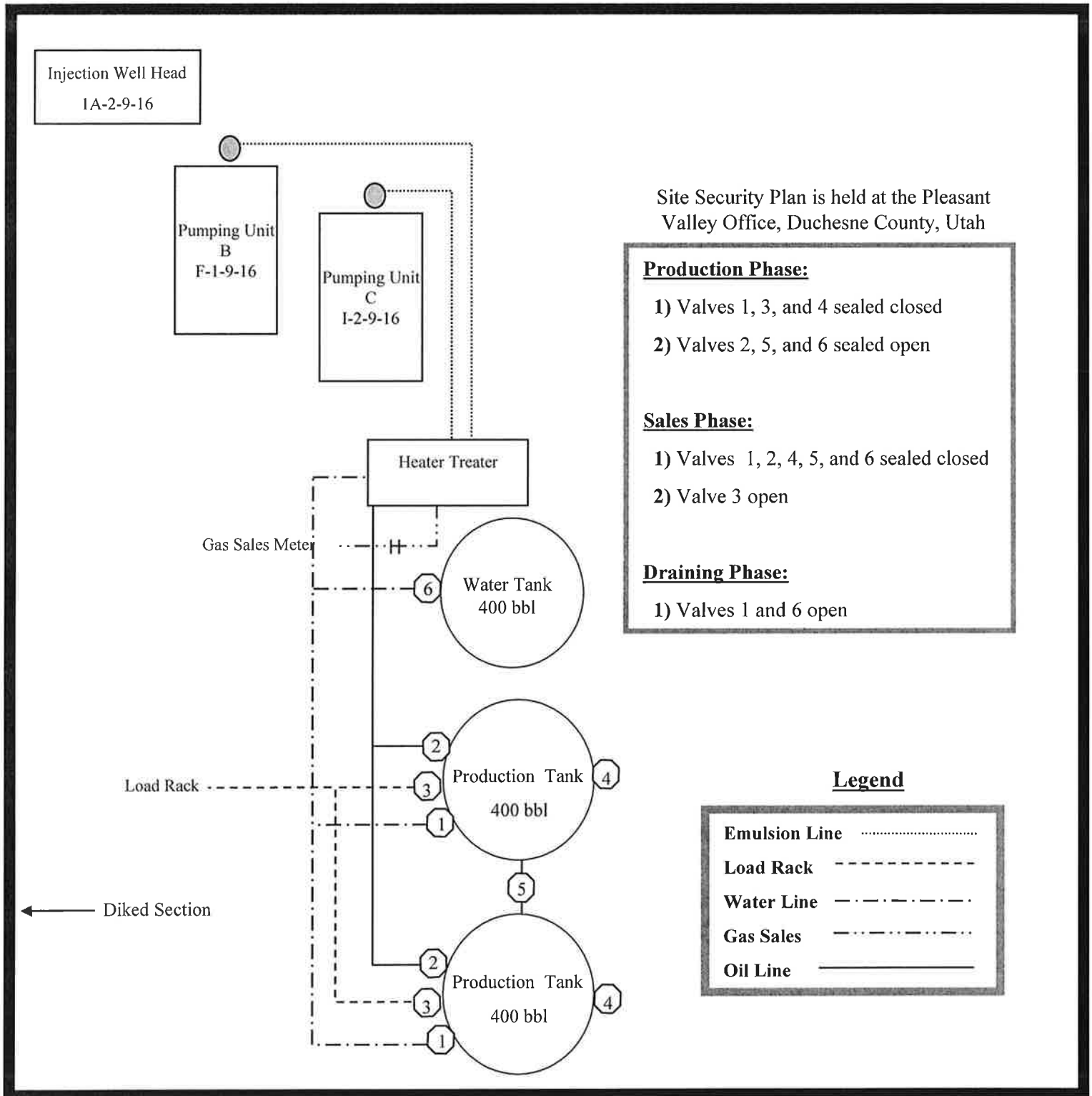
Greater Monument Butte I-2-9-16

From the 1A-2-9-16 Location

NE/NE (Lot #1) Sec. 2 T9S, R16E

Duchesne County, Utah

ML-21839





2335

January 22, 2010

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
Greater Monument Butte I-2-9-16
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R16E Section 2: NENE (ML-21839)
750' FNL 755' FEL

At Target: T9S-R16E Section 2: NENE (ML-21839)
1207' FNL 1320' FEL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 1/21/10, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield Certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

A handwritten signature in blue ink, appearing to read "Shane Gillespie".

Shane Gillespie
Land Associate

RECEIVED

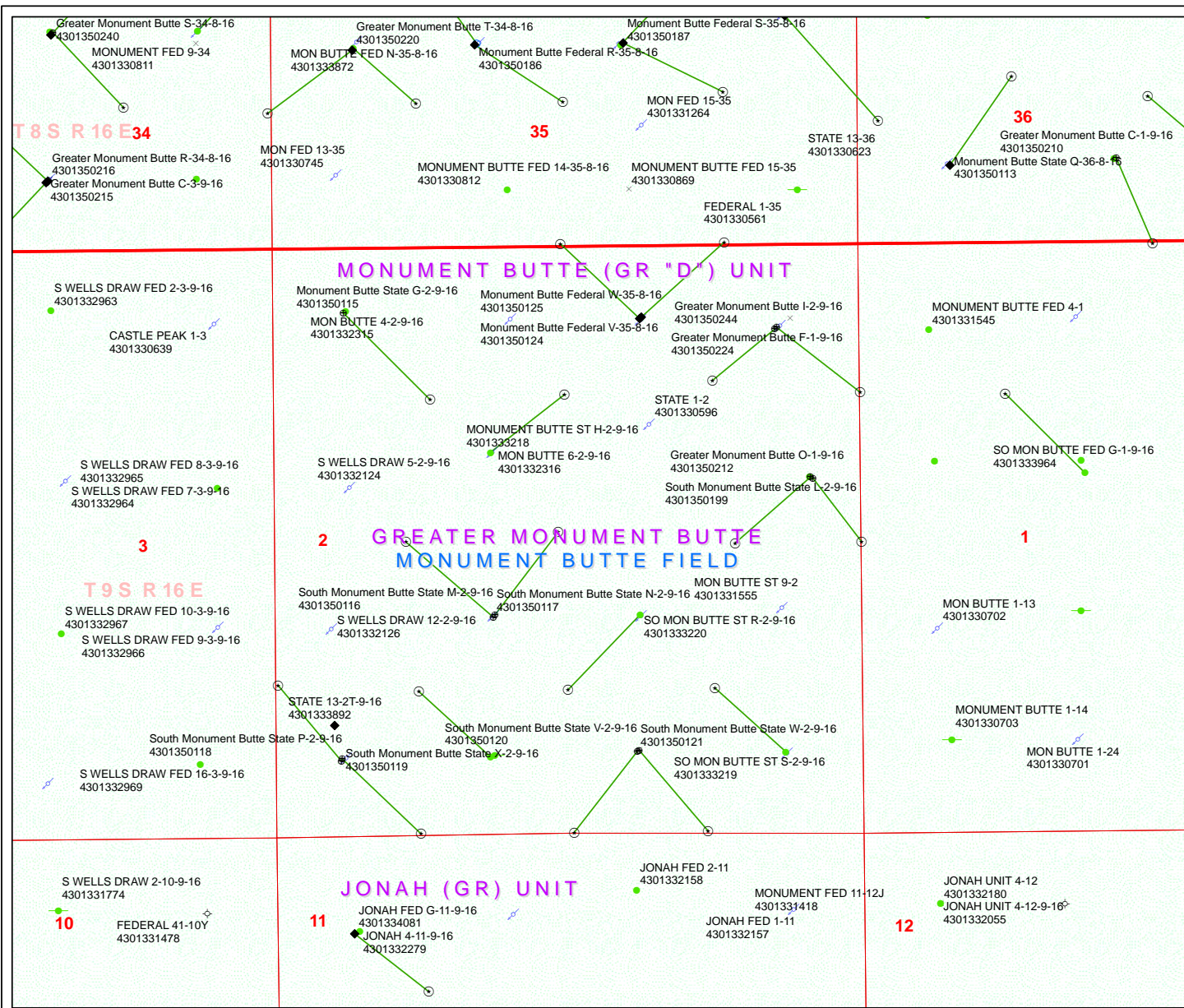
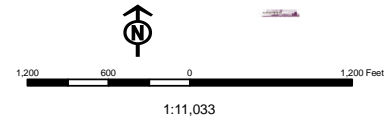
JAN 28 2010

DIV. OF OIL, GAS & MINING

API Number: 4301350244
Well Name: Greater Monument Butte I-2-9-16
Township 09.0 S Range 16.0 E Section 2
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

- | | |
|---------------|------------------------------------|
| Units | Wells Query |
| STATUS | Status |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NP PP OIL | GS - Gas Storage |
| NP SECONDARY | LA - Location Abandoned |
| PI OIL | LOC - New Location |
| PP GAS | OPS - Operation Suspended |
| PP GEOTHERMAL | PA - Plugged Abandoned |
| PP OIL | PGW - Producing Gas Well |
| SECONDARY | POW - Producing Oil Well |
| TERMINATED | RET - Returned APD |
| Fields | SGW - Shut-in Gas Well |
| STATUS | SOW - Shut-in Oil Well |
| Unknown | TA - Temp. Abandoned |
| ABANDONED | TW - Test Well |
| ACTIVE | WDW - Water Disposal |
| COMBINED | WWI - Water Injection Well |
| INACTIVE | WSW - Water Supply Well |
| STORAGE | |
| TERMINATED | |
| Sections | |
| Township | |



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

February 10, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Greater Monument
Butte Unit, Duchesne and Uintah Counties,
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following vertical and horizontal wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ GREEN RIVER)

43-013-34222	GMBBU 14-36-8-15H	Sec 36 T08S R15E 0502 FSL 2096 FWL
	Lateral 1	Sec 36 T08S R15E 0386 FNL 0824 FEL
43-013-50242	GMBU 14-14T-9-15H	Sec 14 T09S R15E 0510 FSL 2307 FWL
	Lateral 1	Sec 14 T09S R15E 0283 FNL 1150 FEL
43-013-50243	GMBU 15-22-9-15H	Sec 22 T09S R15E 0661 FSL 1978 FEL
	Lateral 1	Sec 15 T09S R15E 0172 FSL 0375 FEL
43-013-50244	GMBU I-2-9-16	Sec 02 T09S R16E 0750 FNL 0755 FEL
	BHL	Sec 02 T09S R16E 1207 FNL 1320 FEL
43-013-50248	GMBU E-1-9-16	Sec 01 T09S R16E 0787 FNL 0628 FWL
	BHL	Sec 01 T09S R16E 0010 FNL 0010 FWL
43-013-50249	GMBU D-1-9-16	Sec 01 T09S R16E 0775 FNL 0645 FWL
	BHL	Sec 01 T09S R16E 0010 FNL 1395 FWL
43-013-50250	GMBU M-1-9-16	Sec 01 T09S R16E 1998 FSL 1974 FWL
	BHL	Sec 01 T09S R16E 2630 FNL 2630 FEL
43-013-50251	GMBU N-1-9-16	Sec 01 T09S R16E 1965 FNL 0674 FWL
	BHL	Sec 01 T09S R16E 2635 FSL 1325 FWL

43-013-50252	GMBU C-26-8-16	Sec 23 T08S R16E 0635 FSL 1972 FWL
	BHL	Sec 26 T08S R16E 0010 FNL 2635 FEL
43-013-50253	GMBU A-11-9-16	Sec 01 T09S R16E 0856 FSL 0817 FWL
	BHL	Sec 11 T09S R16E 0010 FNL 0010 FEL
43-013-50254	GMBU T-2-9-16	Sec 01 T09S R16E 0871 FSL 0831 FWL
	BHL	Sec 02 T09S R16E 1325 FSL 0010 FEL
43-013-50255	GMBU F-2-9-16	Sec 03 T09S R16E 2103 FNL 0451 FEL
	BHL	Sec 02 T09S R16E 1390 FNL 0010 FWL
43-013-50256	GMBU O-2-9-16	Sec 03 T09S R16E 2113 FNL 0470 FEL
	BHL	Sec 02 T09S R16E 2451 FSL 0075 FWL
43-013-50257	GMBU H-1-9-16	Sec 01 T09S R16E 0679 FNL 1992 FEL
	BHL	Sec 01 T09S R16E 1325 FNL 2635 FWL
43-013-50258	GMBU R-26-8-16	Sec 26 T08S R16E 1970 FSL 2033 FEL
	BHL	Sec 26 T08S R16E 1310 FSL 2635 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:2-10-10

From: Jim Davis
To: Bonner, Ed; Mason, Diana
CC: teaton@newfield.com
Date: 2/10/2010 12:05 PM
Subject: Newfield Approvals (5)

The following APDs have been approved by SITLA including arch and paleo clearance.

4301350209	Greater Monument Butte B-1-9-16
4301350210	Greater Monument Butte C-1-9-16
4301350211	Greater Monument Butte T-36-8-16
4301350244	Greater Monument Butte I-2-9-16
4301350212	Greater Monument Butte O-1-9-16

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	NEWFIELD PRODUCTION COMPANY Greater Monument Butte I-2-9-16 4:			
String	Surf	Prod		
Casing Size(in)	8.625	5.500		
Setting Depth (TVD)	450	6205		
Previous Shoe Setting Depth (TVD)	0	450		
Max Mud Weight (ppg)	8.3	8.4		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2689	8.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$	194	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$	140	YES air drill
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$	95	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	95	NO OK
Required Casing/BOPE Test Pressure=		450	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

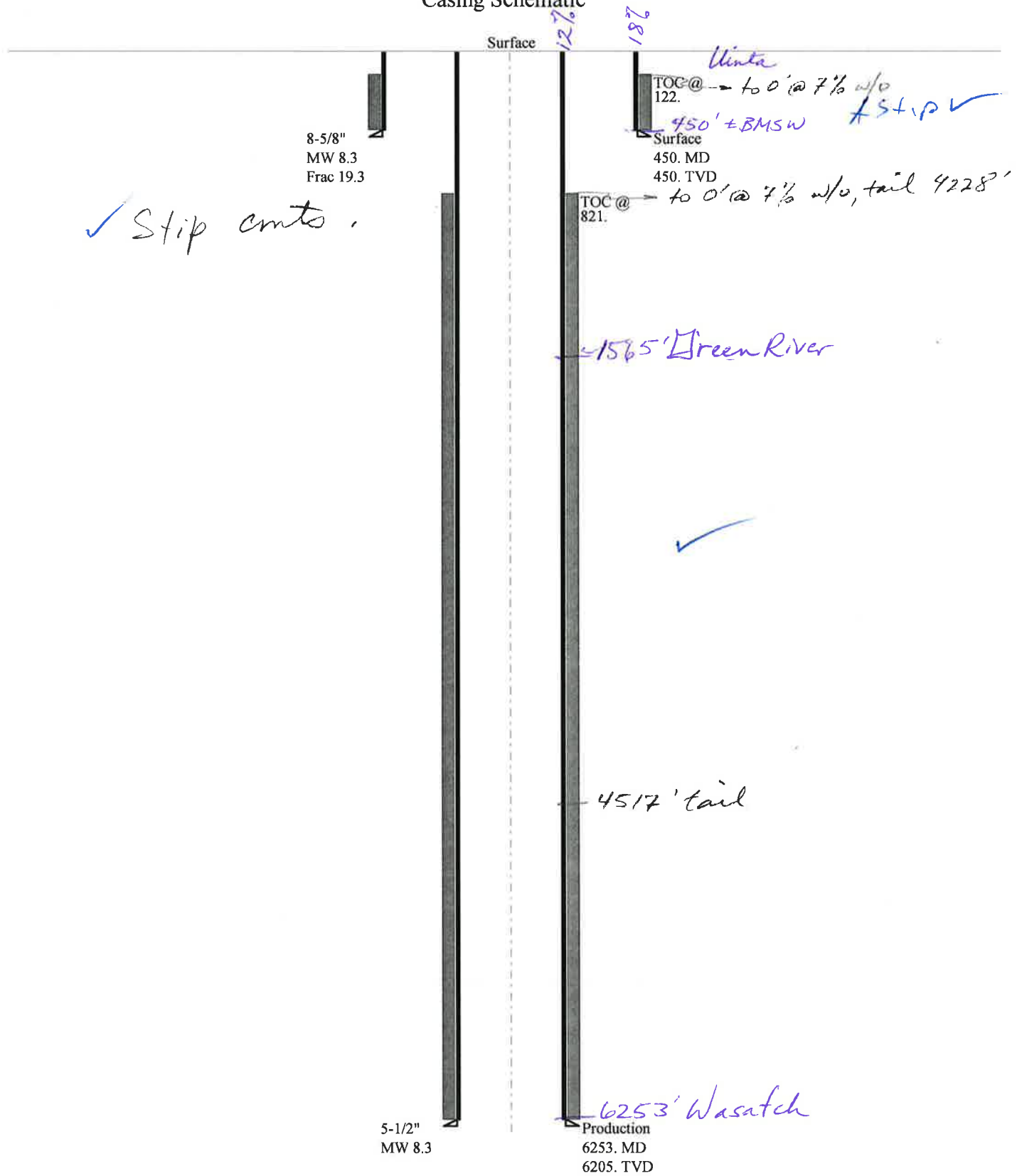
Calculations	Prod String	5.500	"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$	2710	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$	1965	YES
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$	1345	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	1444	NO Reasonable for area
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		450	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43013502440000 Greater Monument Butte I-2-9-16

Casing Schematic



Well name:	43013502440000 Greater Monument Butte I-2-9-16		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Surface	Project ID:	43-013-50244
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 80 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 122 ft

Burst

Max anticipated surface pressure: 396 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 450 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 394 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 6,205 ft
Next mud weight: 8.400 ppg
Next setting BHP: 2,707 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 450 ft
Injection pressure: 450 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	450	8.625	24.00	J-55	ST&C	450	450	7.972	2317
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	195	1370	7.035	450	2950	6.56	10.8	244	22.59 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 15, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 450 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013502440000 Greater Monument Butte I-2-9-16		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Production	Project ID:	43-013-50244
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 161 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 821 ft

Burst

Max anticipated surface pressure: 1,320 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 2,685 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Directional Info - Build & Hold

Kick-off point 600 ft
Departure at shoe: 727 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 7.74 °

Tension is based on air weight.
Neutral point: 5,464 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	6253	5.5	15.50	J-55	LT&C	6205	6253	4.825	22079
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2685	4040	1.505	2685	4810	1.79	96.2	217	2.26 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 15, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6205 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	NEWFIELD PRODUCTION COMPANY				
Well Name	Greater Monument Butte I-2-9-16				
API Number	43013502440000	APD No	2335	Field/Unit	MONUMENT BUTTE
Location: 1/4,1/4	NENE	Sec 2	Tw 9.0S	Rng 16.0E	750 FNL 755 FEL
GPS Coord (UTM)	Surface Owner				

Participants

Floyd Bartlett (DOGM), Tim Eaton and Brian Foote (Newfield Production Co.), Cory Miller and Tyson Reary (Tri State Land Surveying), Alex Hansen (Division of Wildlife Resources), Jim Davis (SITLA) and James Hereferd (Bureau Of Land Management).

Regional/Local Setting & Topography

Two additional oil wells (Greater Monument Butte I-2-9-16 and Greater Monument Butte F-1-9-16) are proposed to be drilled from the existing pad of the Monument Butte 1A-2-9-16 which is a water injection well. No significant changes to the previously disturbed area of the existing pad are planned. The existing pad appears to be stable and should be acceptable for drilling and operating the additional wells. The surface of the location and minerals are owned by SITLA. The wells are on a 20-acre spacing.

Surface Use Plan

Current Surface Use

Grazing
Wildlife Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 168 Length 305	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Existing pad. Little new disturbance

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? Paleo Potential Observed? N Cultural Survey Run? Cultural Resources?

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)		0	
Dist. Nearest Municipal Well (ft)		0	
Distance to Other Wells (feet)		20	
Native Soil Type		10	
Fluid Type	Fresh Water	5	
Drill Cuttings		0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits		0	
Final Score		40	1 Sensitivity Level

Characteristics / Requirements

A reserve pit will be re-dug near the original location on the north side of the pad. Its dimensions are 80' x 40' x 8' deep. A 16-mil liner and a sub-liner are required.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

Other Observations / Comments

Floyd Bartlett
Evaluator

12/15/2009
Date / Time

Application for Permit to Drill Statement of Basis

3/23/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2335	43013502440000	LOCKED	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD		
Well Name	Greater Monument Butte I-2-9-16		Unit	GMBU (GRRV)	
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	NENE 2 9S 16E S 750 FNL 755 FEL GPS Coord (UTM) 578527E 4435175N				

Geologic Statement of Basis

Newfield proposes to set 350' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 450'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a major source of useable ground water. However, ground water in the Uinta Formation should be of sufficient quality and quantity for isolated domestic and agricultural use and should be protected. Surface casing should be extended to cover the base of the moderately saline ground water.

Brad Hill
APD Evaluator

2/9/2010
Date / Time

Surface Statement of Basis

Two additional oil wells (Greater Monument Butte I-2-9-16 and Greater Monument Butte F-1-9-16) are proposed to be drilled from the existing pad of the Monument Butte 1A-2-9-16 which is a water injection well. No significant changes to the previously disturbed area of the existing pad are planned. The existing pad appears to be stable and should be acceptable for drilling and operating the additional wells. The surface of the location and minerals are owned by SITLA. The wells are on a 20-acre spacing.

Jim Davis of SITLA attended. He was in agreement with the proposal. SITLA is to be contacted for surface reclamation standards.

Alex Hansen of the Utah Division of Wildlife resources also attended the evaluation. He stated that no significant impacts to wildlife should occur.

Floyd Bartlett
Onsite Evaluator

12/15/2009
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/2/2010

API NO. ASSIGNED: 43013502440000

WELL NAME: Greater Monument Butte I-2-9-16

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NENE 2 090S 160E

Permit Tech Review: ☒

SURFACE: 0750 FNL 0755 FEL

Engineering Review: ☒

BOTTOM: 1207 FNL 1320 FEL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.06507

LONGITUDE: -110.07920

UTM SURF EASTINGS: 578527.00

NORTHINGS: 4435175.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-21839

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** STATE/FEE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** 43-7478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

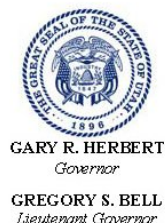
Commingle Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** GMBU (GRRV)
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 213-11
- Effective Date:** 11/30/2009
- Siting:** Suspends General Siting
- ☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
5 - Statement of Basis - bhill
15 - Directional - dmason
25 - Surface Casing - ddoucet
27 - Other - bhill



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Greater Monument Butte I-2-9-16
API Well Number: 43013502440000
Lease Number: ML-21839
Surface Owner: STATE
Approval Date: 3/23/2010

Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For Gil Hunt
Associate Director, Oil & Gas

Spud
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration

Rig Name/# Ross #21

Submitted By Mitch Benson

Phone Number (435) 823-5885

Name/Numer Greater Monument Butte I-2-9-16

Qtr/Qrt NE/NE Section 2 Township 9S Range 16E

Lease Serial Number ML-21839

API Number 43-013-50244

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 6/29/2010 9:00:00 AM

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 6/29/2010 4:00:00 PM

Remarks:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-21839
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER: MON BUTTE I-2-9-16
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 2, T9S, R16E		9. API NUMBER: 4301350244
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
07/07/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Spud Notice
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 6-29-10 MIRU ROSS spud rig #21. Drill 490' of 12 1/4" hole with air mist. TIH W/11 Jt's 8 5/8" J-55 24# csgn. Set @ 488.9'. On 7-22-10 Cement with 240 sks of Class "G" w/ 2% CaCL+ 1/4# Cello Flake. Mixed @ 15.8 ppg> 1.17 cf/sk yeild. Returned 8 bbls cement to pit.

NAME (PLEASE PRINT) Xabier Lasa

TITLE Drilling Foreman

SIGNATURE

DATE 07/07/2010

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NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 488.9

LAST CASING 14 SET AT 6
 DATUM 13
 DATUM TO CUT OFF CASING 13
 DATUM TO BRADENHEAD FLANGE 13
 TD DRILLER 490 LOGGER _____
 HOLE SIZE 12 1/4"

OPERATOR Newfield Exploration Company
 WELL MON BUTTE I-2-9-16
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # Ross Rig #21

LOG OF CASING STRING:								
PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
1		Well Head					A	0.95
11	8 5/8"	ST&C Casing (43.2' shoe jt)		24	J-55	STC	A	475.05
1		Guide Shoe					A	0.9

[illegible]

COMPANY REPRESENTATIVE

Mitch Benson

DATE 7/2/2010

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3630
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400	4301350126	GREATER BOUNDARY II FED R-21-8-17	NWSE	21	8S	17E	DUCHESNE	6/29/2010	7/26/10
WELL 1 COMMENTS: GRUV BHL = SWSE											
B	99999	17400	4301350224	GREATER MONUMENT BUTTE F-1-9-16	NENE	2	9S	16E	DUCHESNE	6/30/2010	7/26/10
WELL 2 COMMENTS: GRUV BHL = Sec 1 SWNW											
B	99999	17400	4301350244	GREATER MONUMENT BUTTE I-2-9-16	NENE	2	9S	16E	DUCHESNE	6/29/2010	7/26/10
WELL 3 COMMENTS: GRUV BHL = NENE											
WELL 5 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)
A - 1 new entity for new well (single well only)
B - well to existing entity (group or unit well)
C - from one existing entity to another existing entity
D - well from one existing entity to a new entity
E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

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Signature [Signature] Jentri Park
Production Clerk
Date 07/01/10

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, recenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

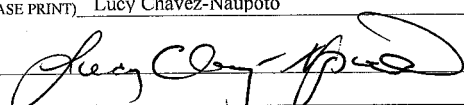
1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-21839
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 0750 FNL 0755 FEL		8. WELL NAME and NUMBER: MON BUTTE I-2-9-16
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 2, T9S, R16E		9. API NUMBER: 4301350244
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: DUCHESNE
		STATE: UT

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will 	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 08/03/2010			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 08-03-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant
SIGNATURE  DATE 08/04/2010

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Daily Activity Report

Format For Sundry

MON BUTTE I-2-9-16**5/1/2010 To 9/30/2010****7/21/2010 Day: 1****Completion**

Rigless on 7/21/2010 - Ran CBL & shot 1st stage - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6168' & cement top @ 104'. Perforate stage #1, CP4 sds @ 5901-04', CP2 sds @ 5806-08', CP1 sds @ 5756-61' & CP.5 sds 5713-15' w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen) w/ 3 spf for total of 36 shots. 147 BWTR. SWIFN.

Daily Cost: \$0**Cumulative Cost:** \$12,616**7/26/2010 Day: 2****Completion**

Rigless on 7/26/2010 - Frac well. - Stage #4; RU WLT. RIH w/ frac plug & perf guns. Set plug @ 4980'. Perforate D1 sds @ 4875-80' w/ 3 spf for total of 15 shots. RU BJ & open well w/ 1820 psi on casing. Perfs broke down @ 2530 psi back to 2465 psi w/ 3 bbls @ 2 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 20,460#'s of 20/40 sand in 324 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2727 @ ave rate of 27 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2002 w/ .84FG. 5 min was 1842. 10 min was 1821. 15 min was 1810. Leave pressure on well. 1597 bbls EWTR - Stage #1; RU BJ Services "Ram Head" frac flange. RU BJ & open well w/ 392 psi on casing. Perfs broke down @ 2088 psi back to 2000 psi w/ 4 bbls @ 4 bpm. ISIP was 1711 w/ .73FG. 1 min was 1006. 4 min was 904. Pump 6 bbls of 15% HCL acid (had 700 psi drop when hit perfs). Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 39,885#'s of 20/40 sand in 508 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2298 @ ave rate of 40 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1963 w/ .77FG. 5 min was 1755. 10 min was 1695. 15 min was 1653. Leave pressure on well. 655 bbls EWTR. - Stage #2; RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & perf guns. Set plug @ 5520'. Perforate A3 sds @ 5416-21', 5395-99' w/ 3-1/8" Port Guns (11 gram, .36"EH, 120°, 16.82"pen) w/ 3 spf for total of 27 shots. RU BJ & open well w/ 1535 psi on casing. Perfs broke down @ 2277 psi back to 1819 psi w/ 2 bbls @ 3 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 19,331#'s of 20/40 sand in 330 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2889 @ ave rate of 38 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2024 w/ .81FG. 5 min was 1870. 10 min was 1843. 15 min was 1817. Leave pressure on well. 985 bbls EWTR. - Stage #3; RU WLT. RIH w/ frac plug & perf guns. Set plug @ 5150'. Perforate C sds @ 5044-48' w/ 3 spf for total of 12 shots. RU BJ & open well w/ 1777 psi on casing. Perfs broke down @ 2320 psi back to 2273 psi w/ 2 bbls @ 4 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 15,021#'s of 20/40 sand in 288 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3337 @ ave rate of 24 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2174 w/ .86FG. 5 min was 1785. 10 min was 1789. 15 min was 1780. Leave pressure on well. 1273 bbls EWTR

Daily Cost: \$0**Cumulative Cost:** \$64,812**7/27/2010 Day: 3****Completion**

Rigless on 7/27/2010 - Finish frac well. Flow well back. - Stage #5; RU WLT. RIH w/ frac plug

& perf guns. Set plug @ 4595'. Perforate GB6 sds @ 4388-95', GB4 sds @ 4335-38', 4329-31' w/ 3 spf for total of 36 shots. RU BJ & open well w/ 1584 psi on casing. Perfs broke down @ 1710 psi back to 1723 psi w/ 2 bbls @ 2 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 36,540#'s of 20/40 sand in 420 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2681 @ ave rate of 43 bpm w/ 6 ppg of sand. ISIP was 2270 w/ .95FG. 5 min was 1958. 10 min was 1888. 15 min was 1874. 2017 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 1.5 hours & turned to oil. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6k) composite solid plug & set @ 4280'. SIFN w/ 1797 bbls EWTR.

Daily Cost: \$0

Cumulative Cost: \$94,512

8/2/2010 Day: 5

Completion

WWS #5 on 8/2/2010 - Drlg plugs. C/O to PBTD. RU to flow overnight. - RU swivel, pump & tanks. Drlg out kill plug in 20 min. Continue drlg out plug. Tag sand @ 6065'. C/O to PBTD @ 6193'. LD 3 jts tbgs. RU to flow over night on 24/64 choke. 1297 bbls EWTR. - MIRUSU. Open well w/ 0 psi on casing. RD Cameron BOP's & frac head. Instal 3M production tbgs head & Schefer BOP's. RU 4-3/4" Chomp mill & x-over sub. Tally, pickup, drift & TIH w/ new J-55, 2-7/8", 6.5#, 8EUE tbgs to leave EOT @ 3810'. Circulate well clean. SIFN. - MIRUSU. Open well w/ 0 psi on casing. RD Cameron BOP's & frac head. Instal 3M production tbgs head & Schefer BOP's. RU 4-3/4" Chomp mill & x-over sub. Tally, pickup, drift & TIH w/ new J-55, 2-7/8", 6.5#, 8EUE tbgs to leave EOT @ 3810'. Circulate well clean. SIFN. - RU swivel, pump & tanks. Drlg out kill plug in 20 min. Continue drlg out plug. Tag sand @ 6065'. C/O to PBTD @ 6193'. LD 3 jts tbgs. RU to flow over night on 24/64 choke. 1297 bbls EWTR.

Daily Cost: \$0

Cumulative Cost: \$136,487

8/3/2010 Day: 6

Completion

WWS #5 on 8/3/2010 - Kill well. TIH w/ production tbgs. - Open well w/ 650 psi on casing. Pump 200 bbls of 10# brine wtr. RD BOP's. Set TA @ 5866' w/ 18,000#'s tension w/ SN @ 5900' w/ EOT @ 5964'. Flush tbgs w/ 50 bbls water. Pick-up & prime pump. TIHW/ new Cntrl Hydrlic 2-1/2" x 1-3/4" x 17' x 24' RHAC pump w/ 224'SL, 4- 1-1/2" weight rods, 231- 7/8" guided (8per) rods, 2' x 7/8" pony rod, 1-1/2" x 30' polish rod. Space pump. Test tbgs to 800 psi. RDMOSU. POP @ 3PM w/ 144"SL @ 4 spm w/ 500 bbls EWTR. Final Report. - Open well w/ 650 psi on casing. Pump 200 bbls of 10# brine wtr. RD BOP's. Set TA @ 5866' w/ 18,000#'s tension w/ SN @ 5900' w/ EOT @ 5964'. Flush tbgs w/ 50 bbls water. Pick-up & prime pump. TIHW/ new Cntrl Hydrlic 2-1/2" x 1-3/4" x 17' x 24' RHAC pump w/ 224'SL, 4- 1-1/2" weight rods, 231- 7/8" guided (8per) rods, 2' x 7/8" pony rod, 1-1/2" x 30' polish rod. Space pump. Test tbgs to 800 psi. RDMOSU. POP @ 3PM w/ 144"SL @ 4 spm w/ 500 bbls EWTR. Final Report. - Open well 1050 psi on csg. Blew well down. Pump 200 bbls brine. TOO H w/ tbgs. LD mill & x-over sub. TIH w/ NC, 2 jts tbgs, SN, 1 jt tbgs, TA new Cntrl Hydrlic w/ 45,000#'s shear, 187 jts tbgs. Well flowing. SIFN w/ 800 bbls EWTR. - Open well 1050 psi on csg. Blew well down. Pump 200 bbls brine. TOO H w/ tbgs. LD mill & x-over sub. TIH w/ NC, 2 jts tbgs, SN, 1 jt tbgs, TA new Cntrl Hydrlic w/ 45,000#'s shear, 187 jts tbgs. Well flowing. SIFN w/ 800 bbls EWTR. **Finalized**

Daily Cost: \$0

Cumulative Cost: \$145,822

Pertinent Files: Go to File List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. ML-21839			
1b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resrv., Other: _____						6. If Indian, Allottee or Tribe Name			
2. Name of Operator NEWFIELD EXPLORATION COMPANY						7. Unit or CA Agreement Name and No. GMBU			
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202						8. Lease Name and Well No. MON BUTTE I-2-9-16			
3a. Phone No. (include area code) (435)646-3721						9. AFI Well No. 43-013-50244			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 750' FNL & 755' FEL (LOT 1) (NE/NE) SEC. 2, T9S, R16E (ML-21839) At top prod. interval reported below 1139' FNL & 1213' FEL (LOT 1) (NE/NE) SEC. 2, T9S, R16E (ML-21839) At total depth 1332' FNL & 1441' FEL (SW/NE) SEC. 2, T9S, R16E (ML-21839)						10. Field and Pool or Exploratory GREATER MB UNIT			
11. Sec., T., R., M., on Block and Survey or Area SEC. 2, T9S, R16E						12. County or Parish DUCHESNE			
13. State UT						17. Elevations (DF, RKB, RT, GL)* 5444' GL 5456' KB			
14. Date Spudded 06/29/2010		15. Date T.D. Reached 07/14/2010		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 08/03/2010					
18. Total Depth: MD 6225' TVD 6127'		19. Plug Back T.D.: MD 6193' TVD 6119'		20. Depth Bridge Plug Set: MD TVD		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	489'		240 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6240'		250 PRIMLITE		104'	
						400 50/50 POZ			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@ 5965'	TA @ 5866'							
25. Producing Intervals									
Formation		Top	Bottom	26. Perforation Record					
A) Green River				Perforated Interval	Size	No. Holes	Perf. Status		
B) Green River				5713-5904' CP.5, 1, 2, 4	.36"	3	36		
C) Green River				5395-5421' A3	.36"	3	27		
D) Green River				5044-5048' C	.36"	3	12		
				4875-4880' D1	.36"	3	15		
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
5713-5904'		Frac w/ 39885#s 20/40 sand in 222 bbls of Lightning 17 fluid.							
5395-5421'		Frac w/ 19331#s 20/40 sand in 117 bbls of Lightning 17 fluid.							
5044-5048'		Frac w/ 15021#s 20/40 sand in 94 bbls of Lightning 17 fluid.							
4875-4880'		Frac w/ 20460#s 20/40 sand in 122 bbls of Lightning 17 fluid.							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
8-2-10	8-15-10	24	→	13	9	17			2-1/2" x 1-3/4" x 17' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status PRODUCING	
2-7/8"			→						
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3816' 4025'
				GARDEN GULCH 2 POINT 3	4147' 4398'
				X MRKR Y MRKR	4670' 4703'
				DOUGALS CREEK MRK BI CARBONATE MRK	4830' 5078'
				B LIMESTON MRK CASTLE PEAK	5205' 5685'
				BASAL CARBONATE	6128'

32. Additional remarks (include plugging procedure):

Stage 5: Green River Formation (GB4 & GB6) 4329-4395', .36" 3/36 Frac w/ 36540#s of 20/40 sand in 211 bbls of Lightning 17 fluid

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other: Drilling Daily Activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Lucy Chavez-NaupotoTitle Administrative AssistantSignature Date 08/19/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NEWFIELD



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 2 9S 16E
I-2-9-16**

Wellbore #1

Design: Actual

Standard Survey Report

14 July, 2010

HATHAWAY ^{HB} BURNHAM
DIRECTIONAL & MWD SERVICES



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
Well: I-2-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well I-2-9-16
TVD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
MD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	SECTION 2 9S 16E, SEC 2 9S 16E		
Site Position:		Northing:	7,193,600.00 ft
From:	Map	Easting:	2,036,100.00 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 3' 34.952 N
		Longitude:	110° 5' 10.480 W
		Grid Convergence:	0.91 °

Well	I-2-9-16, SHL LAT: 40 03 54.30, LONG: -110 04 47.70		
Well Position	+N/-S	0.0 ft	Northing: 7,195,585.45 ft
	+E/-W	0.0 ft	Easting: 2,037,839.80 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	5,456.0 ft
		Latitude:	40° 3' 54.300 N
		Longitude:	110° 4' 47.700 W
		Ground Level:	5,444.0 ft

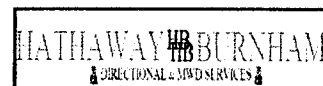
Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/11/04	11.51	65.86	52,470

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	230.16	

Survey Program	Date 2010/07/14				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
505.0	6,201.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
505.0	1.12	166.70	505.0	-4.8	1.1	2.2	0.22	0.22	0.00
536.0	1.08	165.12	536.0	-5.4	1.3	2.5	0.16	-0.13	-5.10
566.0	0.88	195.73	566.0	-5.9	1.3	2.8	1.84	-0.67	102.03
597.0	1.36	244.16	597.0	-6.3	0.9	3.3	3.28	1.55	156.23
628.0	1.93	255.54	627.9	-6.6	0.1	4.2	2.11	1.84	36.71
659.0	2.81	249.65	658.9	-7.0	-1.2	5.3	2.94	2.84	-19.00
689.0	3.27	244.82	688.9	-7.6	-2.6	6.9	1.75	1.53	-16.10
720.0	3.82	243.24	719.8	-8.4	-4.3	8.7	1.80	1.77	-5.10
751.0	4.42	238.40	750.7	-9.5	-6.3	10.9	2.24	1.94	-15.61
781.0	4.70	234.60	780.6	-10.8	-8.3	13.3	1.37	0.93	-12.67
812.0	5.16	234.33	811.5	-12.4	-10.4	15.9	1.49	1.48	-0.87
857.0	5.17	231.06	856.3	-14.8	-13.7	20.0	0.65	0.02	-7.27



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
Well: I-2-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well I-2-9-16
TVD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
MD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

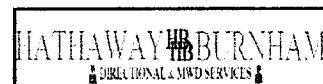
Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
903.0	6.33	228.86	902.1	-17.8	-17.2	24.6	2.57	2.52	-4.78
948.0	7.43	232.71	946.8	-21.2	-21.4	30.0	2.65	2.44	8.56
993.0	8.06	233.63	991.4	-24.8	-26.2	36.0	1.43	1.40	2.04
1,039.0	8.99	232.86	1,036.9	-28.9	-31.7	42.8	2.04	2.02	-1.67
1,084.0	9.21	235.19	1,081.3	-33.1	-37.4	49.9	0.95	0.49	5.18
1,129.0	9.29	234.27	1,125.7	-37.3	-43.3	57.2	0.37	0.18	-2.04
1,175.0	9.56	234.05	1,171.1	-41.7	-49.5	64.7	0.59	0.59	-0.48
1,220.0	9.51	234.51	1,215.5	-46.0	-55.5	72.1	0.20	-0.11	1.02
1,265.0	9.76	233.70	1,259.8	-50.4	-61.6	79.6	0.63	0.56	-1.80
1,310.0	10.27	232.56	1,304.1	-55.1	-67.9	87.4	1.22	1.13	-2.53
1,356.0	10.17	231.15	1,349.4	-60.2	-74.3	95.6	0.59	-0.22	-3.07
1,401.0	10.09	231.15	1,393.7	-65.1	-80.4	103.5	0.18	-0.18	0.00
1,446.0	10.22	232.12	1,438.0	-70.1	-86.7	111.4	0.48	0.29	2.16
1,492.0	10.14	232.02	1,483.3	-75.1	-93.1	119.6	0.18	-0.17	-0.22
1,537.0	10.04	232.20	1,527.6	-79.9	-99.3	127.4	0.23	-0.22	0.40
1,628.0	10.33	231.10	1,617.2	-89.9	-111.9	143.5	0.38	0.32	-1.21
1,673.0	10.61	226.98	1,661.4	-95.2	-118.1	151.7	1.78	0.62	-9.16
1,718.0	10.26	226.67	1,705.7	-100.8	-124.0	159.8	0.79	-0.78	-0.69
1,764.0	9.69	224.80	1,751.0	-106.4	-129.7	167.8	1.43	-1.24	-4.07
1,809.0	9.73	223.61	1,795.3	-111.8	-135.0	175.3	0.45	0.09	-2.64
1,854.0	10.29	224.34	1,839.6	-117.5	-140.5	183.1	1.28	1.24	1.62
1,900.0	9.69	223.37	1,884.9	-123.2	-146.0	191.0	1.35	-1.30	-2.11
1,945.0	9.50	222.53	1,929.3	-128.7	-151.1	198.5	0.52	-0.42	-1.87
1,990.0	9.87	223.44	1,973.7	-134.2	-156.3	206.0	0.89	0.82	2.02
2,036.0	9.45	224.78	2,019.0	-139.8	-161.6	213.7	1.04	-0.91	2.91
2,081.0	10.11	226.75	2,063.4	-145.1	-167.1	221.3	1.64	1.47	4.38
2,126.0	9.76	230.38	2,107.7	-150.2	-172.9	229.0	1.59	-0.78	8.07
2,171.0	9.62	231.92	2,152.0	-155.0	-178.8	236.6	0.65	-0.31	3.42
2,217.0	9.31	230.41	2,197.4	-159.7	-184.7	244.2	0.86	-0.67	-3.28
2,262.0	9.12	229.00	2,241.8	-164.4	-190.2	251.4	0.66	-0.42	-3.13
2,307.0	9.16	230.64	2,286.3	-169.0	-195.7	258.5	0.59	0.09	3.64
2,353.0	9.43	232.51	2,331.7	-173.6	-201.5	266.0	0.88	0.59	4.07
2,398.0	9.93	233.13	2,376.0	-178.2	-207.5	273.5	1.13	1.11	1.38
2,442.0	9.82	233.39	2,419.4	-182.7	-213.6	281.0	0.27	-0.25	0.59
2,489.0	9.87	231.19	2,465.7	-187.6	-219.9	289.1	0.81	0.11	-4.68
2,534.0	9.95	231.35	2,510.0	-192.5	-226.0	296.8	0.19	0.18	0.36
2,579.0	9.56	230.78	2,554.4	-197.3	-231.9	304.4	0.89	-0.87	-1.27
2,624.0	9.07	229.46	2,598.8	-201.9	-237.5	311.7	1.19	-1.09	-2.93
2,670.0	9.03	231.14	2,644.2	-206.5	-243.1	319.0	0.58	-0.09	3.65
2,715.0	9.51	235.72	2,688.6	-210.9	-248.9	326.2	1.96	1.07	10.18
2,760.0	10.00	236.53	2,733.0	-215.1	-255.2	333.8	1.13	1.09	1.80
2,806.0	10.68	234.66	2,778.2	-219.8	-262.0	342.0	1.65	1.48	-4.07
2,851.0	11.34	232.60	2,822.4	-224.9	-268.9	350.6	1.71	1.47	-4.58
2,896.0	11.58	230.29	2,866.5	-230.4	-275.9	359.5	1.15	0.53	-5.13
2,942.0	11.25	229.15	2,911.6	-236.3	-282.9	368.6	0.87	-0.72	-2.48
2,987.0	11.54	227.87	2,955.7	-242.2	-289.5	377.5	0.86	0.64	-2.84
3,032.0	11.82	227.22	2,999.8	-248.4	-296.3	386.6	0.69	0.62	-1.44
3,077.0	11.25	226.25	3,043.8	-254.5	-302.8	395.6	1.34	-1.27	-2.16
3,123.0	11.10	227.87	3,089.0	-260.6	-309.3	404.5	0.76	-0.33	3.52
3,168.0	10.61	227.00	3,133.2	-266.3	-315.6	412.9	1.15	-1.09	-1.93
3,213.0	9.89	223.41	3,177.4	-272.0	-321.3	420.9	2.14	-1.60	-7.98
3,259.0	9.93	226.64	3,222.8	-277.6	-326.9	428.8	1.21	0.09	7.02
3,304.0	9.92	228.28	3,267.1	-282.8	-332.6	436.5	0.63	-0.02	3.64
3,349.0	9.76	228.93	3,311.4	-287.9	-338.3	444.2	0.43	-0.36	1.44



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 2 9S 16E
 Well: I-2-9-16
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well I-2-9-16
 TVD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
 MD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,395.0	9.51	231.30	3,356.8	-292.8	-344.2	451.9	1.02	-0.54	5.15
3,440.0	9.25	230.69	3,401.2	-297.4	-349.9	459.3	0.62	-0.58	-1.36
3,485.0	8.83	228.38	3,445.6	-302.0	-355.3	466.3	1.23	-0.93	-5.13
3,531.0	9.27	228.97	3,491.0	-306.8	-360.8	473.6	0.98	0.96	1.28
3,576.0	9.29	229.57	3,535.5	-311.5	-366.3	480.8	0.22	0.04	1.33
3,621.0	9.36	230.84	3,579.9	-316.2	-371.9	488.1	0.48	0.16	2.82
3,667.0	9.01	231.10	3,625.3	-320.8	-377.6	495.5	0.77	-0.76	0.57
3,712.0	8.42	229.74	3,669.8	-325.2	-382.8	502.3	1.39	-1.31	-3.02
3,757.0	8.66	228.12	3,714.3	-329.6	-387.9	509.0	0.76	0.53	-3.60
3,803.0	9.05	229.26	3,759.7	-334.2	-393.2	516.0	0.93	0.85	2.48
3,848.0	9.23	230.90	3,804.1	-338.8	-398.7	523.2	0.70	0.40	3.64
3,893.0	9.12	232.42	3,848.6	-343.3	-404.3	530.4	0.59	-0.24	3.38
3,938.0	9.78	232.23	3,892.9	-347.8	-410.1	537.7	1.47	1.47	-0.42
3,984.0	10.09	233.13	3,938.3	-352.6	-416.5	545.7	0.75	0.67	1.96
4,029.0	10.17	230.67	3,982.6	-357.5	-422.7	553.6	0.98	0.18	-5.47
4,074.0	10.26	229.40	4,026.8	-362.6	-428.8	561.6	0.54	0.20	-2.82
4,120.0	10.04	228.38	4,072.1	-367.9	-434.9	569.7	0.62	-0.48	-2.22
4,165.0	9.89	228.20	4,116.4	-373.1	-440.7	577.4	0.34	-0.33	-0.40
4,210.0	10.22	224.46	4,160.8	-378.6	-446.4	585.3	1.63	0.73	-8.31
4,256.0	10.11	230.25	4,206.0	-384.0	-452.4	593.4	2.23	-0.24	12.59
4,301.0	9.65	229.50	4,250.4	-389.0	-458.3	601.1	1.06	-1.02	-1.67
4,346.0	10.11	230.64	4,294.7	-394.0	-464.2	608.8	1.11	1.02	2.53
4,392.0	9.95	229.17	4,340.0	-399.1	-470.3	616.8	0.66	-0.35	-3.20
4,437.0	9.78	228.56	4,384.3	-404.2	-476.1	624.5	0.44	-0.38	-1.36
4,482.0	9.25	229.26	4,428.7	-409.1	-481.7	632.0	1.21	-1.18	1.56
4,527.0	8.99	227.85	4,473.1	-413.8	-487.1	639.1	0.76	-0.58	-3.13
4,573.0	8.96	226.97	4,518.6	-418.7	-492.4	646.3	0.31	-0.07	-1.91
4,618.0	8.33	225.37	4,563.1	-423.4	-497.2	653.0	1.50	-1.40	-3.56
4,663.0	8.00	224.60	4,607.6	-427.9	-501.8	659.4	0.77	-0.73	-1.71
4,709.0	7.67	223.02	4,653.2	-432.4	-506.1	665.6	0.86	-0.72	-3.43
4,754.0	7.84	223.52	4,697.8	-436.8	-510.3	671.6	0.41	0.38	1.11
4,799.0	8.44	228.42	4,742.3	-441.2	-514.8	678.0	2.04	1.33	10.89
4,844.0	8.83	228.20	4,786.8	-445.7	-519.9	684.7	0.87	0.87	-0.49
4,890.0	8.96	231.14	4,832.3	-450.3	-525.3	691.9	1.03	0.28	6.39
4,935.0	9.73	232.09	4,876.7	-454.9	-531.0	699.2	1.75	1.71	2.11
4,980.0	9.62	228.12	4,921.0	-459.7	-536.8	706.7	1.50	-0.24	-8.82
5,026.0	9.78	227.41	4,966.4	-464.9	-542.6	714.5	0.43	0.35	-1.54
5,071.0	9.62	226.69	5,010.7	-470.1	-548.1	722.0	0.45	-0.36	-1.60
5,116.0	9.27	227.41	5,055.1	-475.1	-553.5	729.4	0.82	-0.78	1.60
5,162.0	9.62	230.71	5,100.5	-480.1	-559.2	736.9	1.40	0.76	7.17
5,206.0	9.58	230.55	5,143.9	-484.7	-564.9	744.3	0.11	-0.09	-0.36
5,251.0	9.49	232.27	5,188.2	-489.4	-570.7	751.7	0.66	-0.20	3.82
5,258.5	9.46	232.10	5,195.7	-490.1	-571.7	753.0	0.52	-0.37	-2.21
I-2-9-16 TGT									
5,297.0	9.32	231.24	5,233.6	-494.0	-576.6	759.2	0.52	-0.37	-2.25
5,343.0	8.79	231.02	5,279.1	-498.6	-582.3	766.5	1.15	-1.15	-0.48
5,388.0	8.61	231.21	5,323.5	-502.8	-587.6	773.3	0.41	-0.40	0.42
5,434.0	8.70	231.32	5,369.0	-507.2	-593.0	780.2	0.20	0.20	0.24
5,479.0	9.18	233.48	5,413.5	-511.4	-598.5	787.2	1.30	1.07	4.80
5,524.0	9.29	232.25	5,457.9	-515.8	-604.3	794.4	0.50	0.24	-2.73
5,569.0	8.95	232.06	5,502.3	-520.2	-609.9	801.5	0.76	-0.76	-0.42
5,615.0	9.51	231.79	5,547.7	-524.7	-615.7	808.9	1.22	1.22	-0.59
5,660.0	9.07	230.88	5,592.1	-529.3	-621.4	816.2	1.03	-0.98	-2.02
5,705.0	8.94	230.62	5,636.6	-533.7	-626.8	823.2	0.30	-0.29	-0.58



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
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Wellbore: Wellbore #1
Design: Actual

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TVD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
MD Reference: I-2-9-16 @ 5456.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,751.0	9.80	227.94	5,682.0	-538.6	-632.5	830.7	2.10	1.87	-5.83
5,796.0	10.55	230.91	5,726.2	-543.8	-638.5	838.7	2.03	1.67	6.60
5,841.0	10.61	229.70	5,770.5	-549.0	-644.9	846.9	0.51	0.13	-2.69
5,887.0	10.02	231.46	5,815.7	-554.3	-651.3	855.2	1.45	-1.28	3.83
5,932.0	9.40	230.95	5,860.1	-559.0	-657.2	862.7	1.39	-1.38	-1.13
5,977.0	8.48	230.56	5,904.5	-563.4	-662.6	869.7	2.05	-2.04	-0.87
6,022.0	8.39	232.07	5,949.1	-567.6	-667.7	876.3	0.53	-0.20	3.36
6,068.0	8.06	232.25	5,994.6	-571.6	-672.9	882.9	0.72	-0.72	0.39
6,113.0	7.29	234.11	6,039.2	-575.2	-677.7	888.9	1.80	-1.71	4.13
6,158.0	6.61	231.02	6,083.9	-578.5	-682.1	894.3	1.72	-1.51	-6.87
6,201.0	6.22	231.43	6,126.6	-581.5	-685.8	899.2	0.91	-0.91	0.95

Wellbore Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
I-2-9-16 TGT	0.00	0.00	5,200.0	-465.5	-558.0	7,195,111.12	2,037,289.29	40° 3' 49.699 N	110° 4' 54.877 W
- actual wellpath misses by 28.5ft at 5258.5ft MD (5195.7 TVD, -490.1 N, -571.7 E)									
- Circle (radius 75.0)									

Checked By: _____

Approved By: _____

Date: _____

NEWFIELD



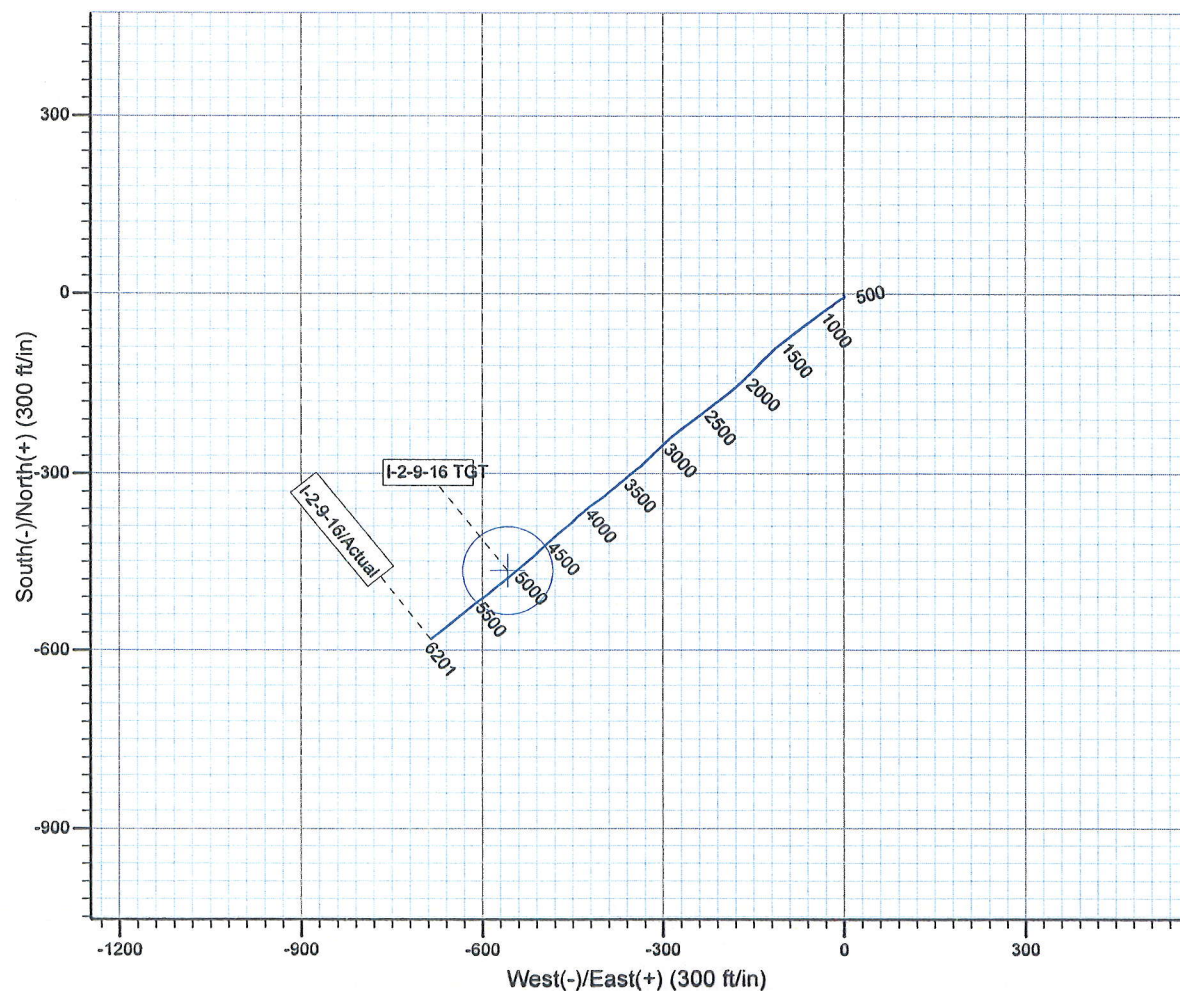
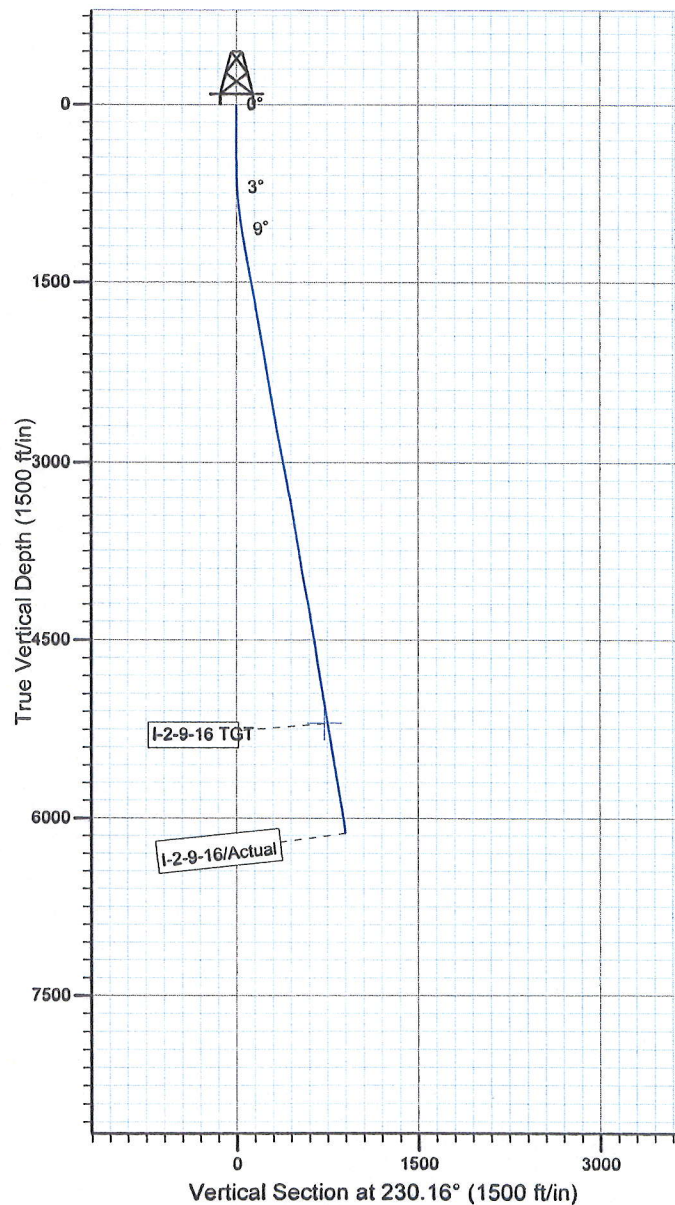
Project: USGS Myton SW (UT)
 Site: SECTION 2 9S 16E
 Well: I-2-9-16
 Wellbore: Wellbore #1
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North
 Magnetic North: 11.51°

Magnetic Field
 Strength: 52469.5snT
 Dip Angle: 65.86°
 Date: 2009/11/04
 Model: IGRF200510



HATHAWAY HBBURNHAM
 DIRECTIONAL & MWD SERVICES

Design: Actual (I-2-9-16/Wellbore #1)

Created By: *Jim Hudson* Date: 20:02, July 14 2010
 THIS SURVEY IS CORRECT TO THE BEST OF MY
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

Daily Activity Report

Format For Sundry

MON BUTTE I-2-9-16**5/1/2010 To 9/30/2010****MON BUTTE I-2-9-16****Waiting on Cement****Date:** 7/2/2010

Ross #21 at 490. Days Since Spud - casing (guide shoe, shoe jt, baffle plate, 10 jts) set @ 488.9' KB. On 7/2/10 BJ Services cemented - 8 5/8" casing w/ 240 sks Class "G" + 2% CaCl₂ + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield. - Returned 8 bbls to pit. - On 6/29/10 Ross Rig #21 spud MB I-2-9-16, drilled 490' of 12 1/4" hole, and ran 11 jts 8 5/8"

Daily Cost: \$0**Cumulative Cost:** \$35,776**MON BUTTE I-2-9-16****TIH****Date:** 7/11/2010

Capstar #328 at 490. 0 Days Since Spud - Test casing to 1500#s for 30 min - Floor valve & Pipe rams Inside choke valves Blind rams outside choke valves to 2000#s for 10 min - Nipple Bops - Move rig w/ Howcroft Trucking to I-2-9-16 on 7/10/10 - Repair rig - RU flow line & Hook up choke lines - PU BHA Smith MI 616 PDC-Dog sub-6.5" 7/8 lobe 4.8 stg .33 MM-NMDC-Gap sub-Ant sub-NMDC - 9-4.5" HWDP Tag cmt @ 360' - Accept rig @ 8:00 PM 7/10/10 & Hold safety mtg & RU & Test bops B&C Quick test & Upper kelly cock &

Daily Cost: \$0**Cumulative Cost:** \$111,659**MON BUTTE I-2-9-16****Drill 7 7/8" hole with fresh water****Date:** 7/12/2010

Capstar #328 at 3671. 1 Days Since Spud - Rig serv - Drill 77/8" hole f/ 360 to 2040 WOB= 10/20 RPMS= 184 GPM= 409 ROP= 146' pr hr - Drill 77/8" hole f/ 2040 to 3671 WOB= 15/20 RPMS= 184 GPM= 409 ROP= 135.9' pr hr

Daily Cost: \$0**Cumulative Cost:** \$140,445**MON BUTTE I-2-9-16****Drill 7 7/8" hole with fresh water****Date:** 7/13/2010

Capstar #328 at 5618. 2 Days Since Spud - Drill 77/8" hole f/ 4668' to 5618' WOB= 18/20 RPMS= 184 GPM= 409 ROP= 73' pr hr - Rig serv - Drill 77/8" hole f/ 3671' to 4668' WOB= 18/20 RPMS= 184 GPM= 409 ROP= 94.9' pr hr

Daily Cost: \$0**Cumulative Cost:** \$161,084**MON BUTTE I-2-9-16****Running casing****Date:** 7/14/2010

Capstar #328 at 6251. 3 Days Since Spud - RU PSI & run Comp. Density ,Comp. Neutron,& Gamma Ray /Loggers TD 6250' - RU Top Drive & run 5.5" J55 15.5# LT&C Csg. - Finish running Csg. 143 jts 5.5" J55 15.5# LT&C/Tag @ 6220'/Wash down & land @ 6240'/Float collar @ - 6193.24 flag @ 4051.87' - RU BJ & circ. With rig pump - Cmt with BJ/Pumped 250 sks PLII+3%KCL+5#CSE+0.5#CF+2#KOL+.5#CF+2#KOL+.5SMS+FP=SF 11 ppg 3.53 yield - 400 sks 50:50:2+3%KCL++0.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L 14.4 ppg 1.24 yield - ND BOP's & set Csg slips with 85,000# tension - Clean mud tanks - Release rig @ 1400 7/14/10 - Finish LDDP & BHA - Pump 260 bbls of 10# Brine - LDDP to 3500'/Well flowing 3

GPM - Circ & Cond. For logs - Drill from 5618' to 6251'/WOB 25/RPM 60/GPM 409/ ROP 90 FPH
- Release rig @ 1400 7/14/10 - Clean mud tanks - ND BOP's & set Csg slips with 85,000#
tension - 400 sks 50:50:2+3%KCL++0.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L 14.4 ppg
1.24 yield - Cmt with BJ/Pumped 250 sks PLII+3%
KCL+5#CSE+0.5#CF+2#KOL+.5#CF+2#KOL+.5SMS+FP=SF 11 ppg 3.53 yield - RU BJ &
circ. With rig pump - 6193.24 flag @ 4051.87' - Finish running Csg. 143 jts 5.5" J55 15.5#
LT&C/Tag @ 6220'/Wash down & land @ 6240'/Float collar @ - RU Top Drive & run 5.5" J55
15.5# LT&C Csg. - RU PSI & run Comp. Density ,Comp. Neutron,& Gamma Ray /Loggers TD
6250' - Finish LDDP & BHA - Pump 260 bbls of 10# Brine - LDDP to 3500'/Well flowing 3 GPM
- Drill from 5618' to 6251'/WOB 25/RPM 60/GPM 409/ ROP 90 FPH - Circ & Cond. For logs

Finalized**Daily Cost:** \$0**Cumulative Cost:** \$175,126

Pertinent Files: Go to File List